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United States Department of State
Bureau of Administration

ORIGINAL

Automated Data Processing Euipment and Support Services

COMPLETED
1299

Request for Proposal

CDD

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United States Department of State

Washington, D.C. 20520

September 19, 1986

TO ALL PROSPECTIVE OFFERORS:

The enclosed Request for Proposals (RFP), number 0000-620006JS, is for the purpose of soliciting proposals to provide to the Government general purpose ADP equipment, hardware (both unclassified and TEMPEST), software, support and conversion services, maintenance, training and operational requirements under the terms, conditions and specifications contained therein.

It is anticipated that this solicitation will result in the award of a fixed price with economic price adjustments, indefinite delivery, indefinite quantity type contract with the Department of State for the products and services specified. Delivery of the products and services will be in Washington D.C., other United States cities and various Foreign Service Posts overseas.

In addition to the Department of State, other Foreign Affairs Agencies will be utilizing this contract; e.g., Agency for International Development (AID), United States Information Agency (USIA), United States Foreign Agricultural Service (USFAS), the United States Foreign Commercial Services (USFCS) and the Peace Corps.

The Government contemplates use of the systems for a fixed contract life of sixty (60) months, plus three option years for maintenance, software conversion, software licensing, training, spare parts and other support related services.

Your attention is directed to Section "CC," entitled "Conversion", which is an integral part of this solicitation. The Documentation, along with the requirements and the software identified for conversion as "Initial Development Sites" and "Phase II Requirements", is available for review by prospective offerors in a "Reading Room" set up within the Department of State. The reading room has been established in room 216, located on the second floor at 1701 North Fort Myer Drive, Arlington Virginia. Section "J", Attachments XIII and XVIII contain additional information on the reading room.

Access to the reading room will be limited to one offeror at a time. Each offeror's review group will be limited to a maximum of five (5) people. Interested offerors are requested to contact Mr. Michael Pasek, telephone number (202) 647-8641, to reserve time to examine the samples of the initial software conversion programs. Reservations are available for normal workdays only, Monday through Friday. Each reservation will be for a full day, eight o'clock A.M. through 12 o'clock P.M. and one o'clock P.M. through five o'clock P.M. The Government will make its best efforts to accommodate offerors requesting repeat visits to the reading room, but vendors with first time requests will be given priority over vendors with second requests. All reservations are to be placed with Mr. Pasek.

The scope of this RFP makes it necessary to insist upon very formal levels of communication. It is therefore required that all communication with the Government, by all vendors, be addressed only to the Contracting Officer. The address of the Contracting Officer is listed in block number seven (7) on Standard form 33 (Solicitation, Offer and Award) of the Solicitation document.

All offerors intending to respond to the enclosed RFP must submit a request for the benchmark materials package to the Contracting Officer and include a non-refundable check for $100.00, made payable to the "Treasurer of the United States" to cover costs applicable to the benchmark material. Upon the Contracting Officer's receipt of this letter and payment, offerors will be issued the benchmark materials package which consists of the benchmark programs on magnetic tape, sample data and associated documentation. This material, referenced in Section "J", Attachment XX, will be available for pick-up or mailing ten (10) calendar days after issuance of the RFP. Offerors are reminded that the benchmark material, when released, shall form part of the solicitation and must be considered by all responding vendors.

This cover letter is not an integral part of the RFP. In the event of a conflict between this cover letter and the enclosed RFP, the data and information in the RFP shall prevail.

All proposals or bids submitted under this solicitation shall be returned to the Department of State on or before November 19, 1986, at or before 2:00 PM, to one of the following addresses:

A. For HANDCARRIED proposals or bids and those sent via Express Mail, Federal Express, D.H.L., Emery, etc., the address is:

U. S. Department of State
Procurement Division
Attention: John J. Stever
Contracting Officer
1701 North Fort Myer Drive
5th. floor, Room 528
Arlington, Virginia 22209

B. For proposals or bids sent via MAIL, including registered mail (return receipt requested) and special delivery, the address is:

U. S. Department of State
Contracts Branch
Attention: John J. Stever
Contracting Officer
P.O. Box 9115
Rosslyn Station
Arlington, Virginia 22209

Proposals received after the date specified above, will be considered "Late Proposals" in accordance with the Federal Acquisition Regulations.

Thank you for your interest in this project. We are looking forward to receiving your offer in response to the attached solicitation.

Sincerely,

John J. Stever

John J. Stever
Contracting Officer
U.S. Department of State

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OMB Approved No. 9000-0008

SOLICITATION, OFFER AND AWARD

1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350) ▶ RATING

PAGE OF 1 | 1 PAGES

2. CONTRACT NO.

3. SOLICITATION NO. 0000-620006JS

4. TYPE OF SOLICITATION ☐ SEALED BID (IFB) ☒ NEGOTIATED (RFP)

5. DATE ISSUED 9/19/86

6. REQUISITION/PURCHASE NO.

7. ISSUED BY CODE

U. S. Department of State
Procurement Division
P. O. Box 9115, Rosslyn Station
Arlington, Virginia 22209

8. ADDRESS OFFER TO *(If other than Item 7)*

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder"

SOLICITATION

9. Sealed offers in original and See Sect.L.1 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in 1701 N. Ft. Myer Drive, Room 528 Arlington, Virginia 22209 until 2:00 PM local time 11/19/86 *(Hour)* *(Date)*

CAUTION – LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-10. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL: ▶ A. NAME John J. Stever, Contracting Officer B. TELEPHONE NO. *(Include area code)* *(NO COLLECT CALLS)* (703) 235-9541

11. TABLE OF CONTENTS

(✓)	SEC.	DESCRIPTION	PAGE(S)	(✓)	SEC.	DESCRIPTION	PAGE(S)
		PART I – THE SCHEDULE				PART II – CONTRACT CLAUSES	
x	A	SOLICITATION/CONTRACT FORM	1	x	I	CONTRACT CLAUSES	22
x	B	SUPPLIES OR SERVICES AND PRICES/COSTS	138			PART III – LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH.	
x	C	DESCRIPTION/SPECS./WORK STATEMENT C-219	CC116	x	J	LIST OF ATTACHMENTS	415
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x	E	INSPECTION AND ACCEPTANCE E- 6	EE-15	x	K	REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS	14
x	F	DELIVERIES OR PERFORMANCE F-17	FF-15				
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x	H	SPECIAL CONTRACT REQUIREMENTS	8	x	M	EVALUATION FACTORS FOR AWARD	91

OFFER *(Must be fully completed by offeror)*

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within ________ calendar days *(60 calendar days unless a different period is inserted by the offeror)* from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. DISCOUNT FOR PROMPT PAYMENT *(See Section I, Clause No. 52-232-8)* ▶	10 CALENDAR DAYS %	20 CALENDAR DAYS %	30 CALENDAR DAYS %	CALENDAR DAYS %

14. ACKNOWLEDGMENT OF AMENDMENTS *(The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:*	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

15A. NAME AND ADDRESS OF OFFEROR CODE FACILITY

16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER *(Type or print)*

15B. TELEPHONE NO. *(Include area code)*

☐ 15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.

17. SIGNATURE

18. OFFER DATE

AWARD *(To be completed by Government)*

19. ACCEPTED AS TO ITEMS NUMBERED

20. AMOUNT

21. ACCOUNTING AND APPROPRIATION

22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION:

☐ 10 U.S.C. 2304(c)( ) ☐ 41 U.S.C. 253(c)( )

23. SUBMIT INVOICES TO ADDRESS SHOWN IN *(4 copies unless otherwise specified)* ▶ ITEM

24. ADMINISTERED BY *(If other than Item 7)* CODE

25. PAYMENT WILL BE MADE BY CODE

U.S. Department of State, Vendor Claims
P.O. Box 9487, Rosslyn Station
Arlington, Virginia 22209

26. NAME OF CONTRACTING OFFICER *(Type or print)*

John J. Stever

27. UNITED STATES OF AMERICA

(Signature of Contracting Officer)

28. AWARD DATE

IMPORTANT – Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

NSN 7540-01-152-8064
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STANDARD FORM 33 (REV. 4-85)
Prescribed by GSA
FAR (48 CFR) 53.214(c)

☆ GPO : 1985 O - 491-248 (20232)

SECTION B

SUPPLIES OR SERVICES AND PRICES/COSTS

B.1 INSTRUCTIONS AND CONDITIONS

The Department of State intends to use this contract to procure an indefinite quantity of hardware, software, and support services at the prices in the Schedule, subject to the economic price adjustment clauses in Section I. The configurations and quantities will be specified in individual orders placed by the Government throughout the contract life. In addition, procurement of maintenance services, software licenses, training, contract personnel support, documentation, spare parts and conversion services shall be renewable in yearly increments for a period up to three (3) years beyond the initial five-(5) year fixed- term contract, at the option of the Government. The Contractor will guarantee the availability of these materials and services for the total systems life of eight (8) years under the contract.

Offerors must propose unit prices for all items of hardware, software and support described in this section and, for evaluation purposes only, must summarize in Table B-6 the total costs associated with the quantities, configurations, installations and continued support reflected in Figure IX-3 of Section J, Attachment IX.

The Department of State guarantees a minimum quantity of $8 million per year for 5 years, for a total of $40 million.

The Department of State currently has in use ADP equipment which will continue to be maintained. The maintenance of the existing ADP equipment is not part of this RFP. In some cases, the current equipment replaced by equipment procured under this contract will be relocated to other sites. In some cases, the currently installed equipment will continue in use indefinitely. In order to take into account the timing of the Offeror's proposed conversion approach, ongoing Government maintenance and operation costs, commencing on the scheduled new equipment installation date (see Attachment IX, Section J) and ceasing on the projected date for current equipment deinstallation at that site, are to be added to the costs submitted by each Offeror and included in the total cost to the Government over the system life. These costs are to be sufficiently documented by the Offeror to enable Government verification.

To assist the Department of State (DOS) in evaluating the Offeror's cost proposal, the DOS will use the American Computer Systems Corporation (AMCCOR) Bid Analysis Cost Evaluation System (BACES). Each Offeror must submit data on magnetic media as described in Subsection B.7 and Table B-9, which will be the input to BACES. The BACES performs a present value analysis in accordance with the Office of Management and Budget (OMB) Circular A-94, and it performs a life-cycle, 96 month, cost analysis for this acquisition.

The cost evaluation for this Request for Proposal will be based on the information provided in the Installation Summary Price, Table B-6. These will be audited using the submitted cost tables, substantiating materials and information in the technical proposals.

B.1.1 Volume III Instructions

In accordance with Subsection L.1.4, Volume III of the Offeror's proposal will contain the cost proposal and must be organized as follows:

Section 1 - Unit Price Tables

Table B-1	Hardware Unit Price Schedule (reference Section C)
B-2	Software Unit Price Schedule (reference Section C)
B-3	Support Services Price Schedule (reference Section C)
B-3a and B-3b	Support Services Price Schedule (reference Section CC)
B-4	Training Price Schedule (reference Section C)
B-4a	Training Price Schedule (reference Section CC)
B-5	Manuals and Publications Price Schedule (reference Section C)
B-5a	Manuals and Publications Price Schedule (reference Section CC)

Section 2 - Site Conversion Worksheets

Section 3 - Life Cycle Cost Summary

Table B-6 Installation Summary Price Table

NOTE: Table B-7 is reserved.

Section 4 - BACES Costing Information Questionnaires and Magnetic Media

Table B-8-1 Statement of Pricing Terms and Conditions

B-8-2 On-Call Maintenance Service

B-8-3 Maintenance Per-Call Rates

B-8-4 Purchase Option Credits Schedule(s)

B-8-5 Escalation/Discount Schedule

B-8-6 Zone Surcharge Schedule(s)

B-8-7 Equipment Models and Pricing Data

B-8-8A Equipment Models and Pricing Data-Hardware and Software

B-8-8B Equipment Models and Price Data-Other and Government Costs

B-8-9 Configuration Data

File A Line Item Pricing Data
File B Configurations and Items Offered

Detailed descriptions of the tables and the site conversion worksheets are contained in Subsections B.4 through B.6. The Bid Analysis Cost Evaluation System (BACES) information is contained in Subsection B.7, Tables B-8-1 through B-8-9, and Table B-9.

B.2 ASSUMPTIONS FOR USE IN PREPARING COST DATA

The assumptions contained in this Subsection are for use in configuring systems and summarizing costs for completion of Table B-6 for hardcopy submission and for preparation of File A and File B for magnetic media submission. The assumptions are for evaluation purposes only. The Government is not obligated to procure the quantities shown nor to adhere to the schedule contained in Section J, Attachment IX, Figure IX-3.

B.2.1 Assumptions for Hardware/Software/Support (Section C)

a. Section C, Figure C-2 of the RFP contains, for evaluation purposes the hardware configurations, by CPU type C1-C6 and W1, which must be proposed. Section J, Attachment IX contains, for evaluation purposes, the installations of these configurations and installation dates, by quarter. These figures along with the Tables B-1, B-2, B-3, B-4, and B-5 shall be the basis for completing the portions of the Installation Summary Price Table B-6 which relate to Section C hardware/software/support.

   Offerors may propose the minimum of the expressed equipment ranges as long as the equipment configuration meets the benchmark requirements, per year, in Section J, Attachment XX of this RFP. For example, for a S1 range of 264 kilobytes to

1 megabyte, the proposed S1 must have a minimum of 264 kilobytes and be upgradable to at least 1 megabyte. The following is an example for completing the hardware portion of Table B6: In Figure IX-3 of Attachment IX, a C2 is shown as being acquired in the 1st Quarter of Contract Year 2 for organization code 321802, Thessaloniki. Referring to Figure C2, Configuration Table, it is determined that a C2 configuration in Contract Year 2 consists of the following:

4 W1s (referring to the asterisk, it is seen that a W1 has 10 MB of storage with it; not the total W1 configuration)

3 W2s

1 W3

1 S4

1 T1

1 T3 (referring to the double asterisk, the T3 will be ordered in lieu of a T1 as part of a C2 configuration only for every 4th C2 ordered)

1 P2

2 P4s

1 G2

This, then, is a C2 configuration when ordered in Contract Year 2; the price entered for equipment for this installation consists of the total of the unit prices (Table B-1) for these components of a C2 configuration. This configuration must be upgraded to the configurations required for years 4 and 5, as shown in Figure C-2. Assume that the upgrades to the configurations occur on the respective installation anniversary dates in this case, the first quarter of year 4.

b. Assume that the installation date for any item of proposed equipment occurs on the first day of the first month of the quarter indicated in the contract-life year as shown in Figure IX-3 of Attachment IX.

For evaluation purposes system upgrades will be accomplished as follows: Systems procured in year 1 will be upgraded in years 3 and 5 according to the configurations for years 3 and 5. Systems procured in year 2 will be upgraded in year 4 according to the configuration for year 4 (same as year 5). Systems procured in year 3 will be upgraded in year 5 according to the configuration for year 5. Systems procured in years 4 and 5 will not be upgraded. This applies to non-TEMPEST and TEMPEST systems. Assume that the upgrades occur on the respective installation anniversary dates of the applicable year.

c. Assume that the equipment is accepted forty-five (45) days after the equipment is installed and operational and at that time the Warranty period applies as stated in Paragraph I.5.1.

d. Subsection C.4 requires that all ordered software be operable on all processors C1-C6. For evaluation purposes, however, assume that for the C1-C2 configurations, the following software is ordered:

Operating System (C.4.1)
System Backup and Restore (C.4.1.1.1)
Program Interrupt and Restart (C.4.1.1.2)
Logical Device Assignment (C.4.1.1.4)
System Scheduling (C.4.1.1.7)
Resource Allocation (C.4.1.1.8)
Resource Monitoring (C.4.1.1.10)
System Resource Accountability (C.4.1.1.11)
User Command Facility (C.4.1.1.12)
System Procedure Language (C.4.1.1.13)
File Management (C.4.2)
COBOL Compiler (C.4.3.1.1)
Linkage Editor (C.4.3.2)
Program Library Facility (C.4.3.4)
Query Language (C.4.4.1)
Report Generator (C.4.4.2)
Word Processing (C.4.4.5)
Electronic Mail (C.4.4.6)
Data/Document/File Transfer (C.4.4.12)
Sort/Merge (C.4.5.1)
DAS Volume Utilities (C.4.5.4)

e. For the C3-C6 and C3T-C6T configurations, assume that all software required by Subsection C.4 is ordered with each configuration. It should be noted that the requirements of

C.5.1 (Security) and C.5.2 (Communications Requirements) must be proposed for all C1-C6 and C3T-C6T configurations.

f. For the W1 and W1T stand-alones, assume that all software required by Paragraph C.4.6.3 is ordered in addition to the mandatory requirements of C.4.6.1, C.4.6.2, C.5.1 and C.5.2.

g. For local communication configuration requirements including cables (refer to Paragraph C.3.12), assume the following:

   1. The Offeror shall propose all necessary cables and components in order to provide the complete, operational communications system for each W1 (standalone), C1-C6, W1T (standalone), and C3T-C6T to be installed.

   2. All domestic non-TEMPEST equipment will be connected with Teflon-coated coaxial cable.

   3. All foreign non-TEMPEST equipment will be connected using PVC.

   4. All disk drives, tape drives and high-speed printers are co-located to the W1, C1-C6, W1T and C3T-C6T and are connected using an average of 25 feet of cable from the CPU or W1.

   5. Since all remote TEMPEST peripherals must be connected using the Fiber-Optic System, the ordered SMA type connectors are 125% of the maximum number of peripherals for each configuration.

6. The ordered cable connectors for co-located TEMPEST equipment (DASDs, Tape Drives and high-speed printers) and all non-TEMPEST equipment are 110% of the maximum number of peripherals for each configuration.

7. One (1) termination kit for the Fiber Optic System will be ordered with the first TEMPEST system Fiber Optic System and thereafter with every two systems ordered.

8. All workstations, letter-quality printers, dual-mode printers, and Laser printers, plotters and imaging systems are remotely located (TEMPEST and non-TEMPEST), and for each configuration, cabling requirements are as follows:

CPU	Average Distance from CPU
C1	100 feet
C2	150 feet
C3, C3T	175 feet
C4, C4T	200 feet
C5, C5T	225 feet
C6, C6T	250 feet

NOTE: The LAN engineering study will determine the LAN cabling requirements. When delivery orders are written, the unit prices in Table B-1 will be used for purchasing the cables.

h. For Contractor Personnel Support (refer to Subsection C.13) assume the following:

1. One (1) person who is a programmer and an analyst is required for fifteen (15) days for C1-C3 systems and for

thirty (30) calendar days for C4-C6 systems at each new installation site during the first two (2) contract years beginning with the date of installation. (See Paragraph C.13.1.4)

2. One (1) TOP SECRET cleared technician is required at Springfield, Virginia, for thirty (30) calendar days upon delivery to Springfield, Virginia, of the first two (2) TEMPEST systems in each differently configured C-System configuration. (See Paragraph C.13.1.2)

3. One (1) TOP SECRET cleared technician is required for a period of three days to resolve/diagnose technical problems on each TEMPEST equipment configuration once a year for five years for each of the following sites (refer to Paragraph C.13.1.2 and Figure C-9):

   - o Eastern Europe - Warsaw, Poland
   - o Africa I - Abidjan, Ivory Coast
   - o Asia I - Manila, Philippines
   - o Near East I - Amman, Jordan
   - o Central America - Tegucigalpa, Honduras
   - o Southern South America - Brasilia, Brazil

4. Assume the Mandatory Option for pre-installation surveys for the initial equipment installation (refer to C.11 and C.13.1) is exercised for the following sites:

   - o Paris, France
   - o Nairobi, Kenya
   - o New Delhi, India
   - o Bangkok, Thailand

  - o Mexico City, Mexico
  - o A/ISO, Washington, D.C.

5. All other Contractor Personnel Support will be as stated in Subsection C.13 Paragraphs C.13.1 and C.13.1.3.

i. For Maintenance (refer to Subsection C.14), assume the following:

1. The Department of State has designated one country in each of the following areas (refer to Figure C-9) where non-TEMPEST equipment and fiber optic systems must be maintained by Top Secret cleared personnel:

  - o Near East II - Damascus, Syria
  - o Caribbean - Havana, Cuba
  - o Asia I - Peoples Republic of China
  - o Eastern Europe - Union of Soviet Socialist Republics

2. The Mandatory Option for maintenance of foreign TEMPEST equipment and fiber optic systems (refer to Paragraph C.14.12.7) is exercised in the third contract year (and continued for the contract life) for one country in each of the following areas (refer to Figure C-9):

  - o Northern Europe - Brussels, Belgium
  - o Africa I - Lagos, Nigeria
  - o Japan - Tokyo, Japan
  - o Caribbean - Port au Prince, Haiti
  - o Near East I - Kuwait, Kuwait

3. For on-call maintenance (refer to Paragraph C.14.4) assume two (2) calls per month per geographic area (refer to Figure C-9)

4. The Mandatory Option for per-call maintenance (refer to Paragraph C.14.4) is exercised for the following sites for the life of contract commencing after the warranty period:

Site	Organization Code	Location
State, M:FA	012400	Washington, D.C.
State, A/Sy/I-DFO	252800	Dallas, Texas
State, Thessaloniki	321802	Greece
State, Tokyo	330801	Japan
AID, La Paz	D10401	Bolivia
AID, San Salvador	D12001	Uruguay
AID, Mogadishu	D56201	Somalia

For each site, assume an average of 2 calls per month for a 3-hour duration per call.

CLIN 8XXX is to be used for this per-call maintenance. A separate CLIN must be used for a different rate, if charged, for geographical areas (Figure C-9), if there is a prescribed minimum rate per-call, or for other variations that the Offeror may have.

5. All other maintenance is as stated in Subsection C.14.

j. For Training (refer to Subsection C.15), assume the following:

NOTE: Offerors must show in their Unit Price Tables the cost for training additional students in each course.

1. For pre-installation training, assume 1-M (Management), 2-P/S (Professional/ADP Specialist) and 2-0 (other).

2. Installation training conducted for the software ordered on-site is in accordance with the following matrix with the number of students indicated by type of student and configuration installed:

TYPE STUDENT/CONFIGURATION	W1	C1	C2	C3	C4	C5	C6
M - Management	0	1	1	1	1	1	1
P/S - Professional/ ADP Specialist	1	2	4	8	12	16	24
C - Administrative/ Clerical/Other	1	2	4	8	12	16	24

3. Assume, for C1-C2 configurations, that installation training will be conducted for the software listed in paragraph B.2.1.d. The list of software in paragraph B.2.1.d should not be confused with the list in Section C, Figure C-10. The same topics are addressed (by reference); however, less detailed coverage is required for C1-C2 training. For example, Figure C-10 lists Utilities (C.4.5) as a required topic. Paragraph C.4.5 consists of Sort/Merge, Data Conversion, Tape Volume Utilities and DAS Volume Utilities. Paragraph B.2.1.d lists Sort/Merge (C.4.5.1) and DAS Volume Utilities (C.4.5.4) as the only required utilities for C1-C2 configurations.

4. Foreign TEMPEST maintenance training is conducted upon delivery of each TEMPEST system as follows:

o M - Management	1
o S - ADP Specialist	2
o O - Other	1

5. Annual training is conducted for the following subjects:

Personal Computer Programming and Operation
COBOL
System Management and Administration (ADP and WP)
Database Management System
Word Processing (both introductory and advanced)
Electronic Mail
Program Development Tools
Data Communications for User
Personal Computer Maintenance

For evaluation purposes, assume one class each will be conducted in Washington, D.C., and Bangkok, Thailand. The size of each class will be 12 students. Further assume the training is conducted in June of each year.

6. For Special Request Training, assume one (1) on-call training course consisting of five one-week sessions occurs each year in the month of January for word processing, DBMS, Personal Computers and Data Communications for 12 students (6 Professional/ADP Specialist and 6 Clerical/Administrative/Other) at the following locations:

- Mexico City, Mexico
- Dallas, Texas
- Chicago, Illinois

- Paris, France
- San Francisco, California
- Nairobi, Kenya
- Tokyo, Japan

k. For Manuals and Publications (refer to Subsection C. 16) assume the following:

1. All manuals and publications are delivered as stated in Subsection C.16 at equipment installation time.
2. One (1) documentation directory is required for each site at installation time.
3. Automatic update subscription service is subscribed to at each site which has new equipment installed (refer to Section J, Attachment IX, for sites).

B.2.2 Assumptions for Conversion and Conversion Support (Section CC)

The following attachments in Section J are referenced in the assumptions for conversion and conversion support:

- Attachment IX - Installation Schedule. A conversion requirement is indicated in the schedule when a target environment equipment type replaces one or more current environment equipment type. In some cases, the gradual migration of systems will necessitate the conversion of current environment equipment several years following the installation of target environment equipment. In Section J, Attachment IX, note the information following the

Installation Schedule. This information addresses the disposition of equipment which may be unclear in the Installation Schedule, basically indicating which current systems are replaced by new systems.

- Attachment XIII - Computer System Profiles. Attachment XIII contains profiles of the current environment systems, by category of system, to be considered for evaluation purposes as conversion requirements for current systems for contract years one, three and five. Each profile provides the average amount of programs, files, word processing documents and glossaries. Attachment XIII also defines the requirements for parallel operations personnel, training, length of parallel operations and other pertinent information relating to the target C-system conversion requirements.

  The development systems are profiled only for that portion of code and OCL files which will be required for the initial conversion of standard applications and glossaries on six newly acquired development systems. The current development systems will remain, for the purpose of parallel operation, with the new development systems.

- Attachment XV - GCP/Site Cross-reference. Provides a summary of the sites (by organization name and code) that are subordinate to the GCPs required in Section CC, Paragraph CC.6.2.1 (GCPs listed in Figure CC-6-2).

Following are the assumptions:

a. With respect to the conversion requirement, Attachments IX, XIII, and XV along with the Tables B-3a, B-3b, B-4a, B-5a, and

Offeror-provided worksheets shall be the basis for completing the conversion and conversion support portions of the Installation Summary Price Table B-6 and File B. The costs contained in the tables and referenced in the worksheets must be completely substantiated by the Offeror's approach to the conversion effort and the Offeror's fixed-pricing methodology as required in Section L.

b. Assume that the site conversion management task that is required in Section CC.8.3 established the beginning of a site conversion effort. To correlate the installation schedule in Attachment IX to the site conversion management task, assume that the system and acceptance testing conversion task (CC.4.4.7) must commence immediately after the date of target environment equipment acceptance (assumed to be 45 days after equipment installation in Section B, Paragraph B.2.1, item c.), unless the Offeror's conversion approach states otherwise, i.e., that the system and acceptance testing conversion task will commence at a different date in which case the Offeror will explain in the proposal.

c. Assume that the Contractor is responsible for performing the conversion requirements stated in Section CC Subsections CC.8.3, CC.8.4 and CC.8.5.

d. Assume one (1) week of end-user training is required for each target system for the number of End-Users indicated in Section J, Attachment XIII, Target Environment Conversion Training Requirements.

e. The Offeror shall identify government and contractor personnel support as necessary to perform the conversion activities stated in Subsections CC.8.3, CC.8.4 and CC.8.5.

f. The Offeror shall identify and propose manuals and publications necessary to support the conversion effort (e.g., in support of the CSTG, conversion training, etc.).

g. Assume that re-documentation requirements for locally developed applications and glossaries will be in accordance with Figure B-2-7 whenever a conversion requirement exists.

Re-documentation of standard applications and glossaries will be in accordance with Subsection CC.4.4.6.

h. Paragraph CC.4.4.11, Parallel Operation, stated that the Department of State is faced with extremely limited space, power, air conditioning, and personnel availability. For purposes of evaluation, Offerors are to utilize Attachment J-XIII, Target Environment Parallel Operation Requirement, for time and personnel assumptions and assume the following conditions for parallel operations:

- There is no additional space, power or air conditioning at the computer sites to support on-site parallel operations.
- There are no Government personnel available for the support of parallel operations.

i. With respect to support and ongoing operations, the Department of State currently has in use equipment which will be

KEY: F = Foreign
D = Domestic

CURRENT ENVIRONMENT:	co2	co3	co4	cv1	cv2	cv3	cv4	cv5
Personnel Category								
Sr. Tech Writer	---	---	---	---	---	1	1	1
Tech Writer	2	2	2	2	2	2	2	2
Clerk/Typist	1	1	1	1	1	2	2	2
Total Days:	F D	F D	F D	F D	F D	F D	F D	F D
	15 15	30 30	40 40	10 10	15 15	35 35	45 55	65 80

Figure B-2-7

CURRENT ENVIRONMENT RE-DOCUMENTATION REQUIREMENTS maintained until the new equipment is placed into service. Some of the current equipment will be relocated to another site.

Calculation by the Offeror of the cost of supporting the existing systems is to be done, for evaluation purposes as follows, to develop life cycle costs. Monthly ongoing support costs are to be computed for each system at each site, as shown in Figure B-2-8 starting with the installation date. These monthly costs will accrue until acceptance of the system after parallel operations. For evaluation purposes, each existing system will be assumed to remain in place continuously until parallel testing is completed. This includes time for installation of the new system and conversion of programs and data bases. Each vendor is to include these costs for each existing system scheduled to be replaced by a new system.

j. With respect to current environments, vendor proposals must state the configuration space requirements for each C-System for each year of the System life. Any additional space required (see Section C.11 for the available space for each target system) will be assessed a one-time space upgrade cost of $120 per square foot. Credit will be allowed for target systems that require less space than that which has been indicated as available. Vendors are to include these costs in their proposals.

k. During Phase III at the foreign standard production sites (depicted in Section J, Attachment IX and defined in Section CC, Paragraph CC.4.5.2), the Contractor is to install and implement the standard applications that were converted during Phase I. The Contractor is to also convert the related data

CURRENT ENVIRONMENT EQUIPMENT TYPES

COSTS	cv1	cv2	cv3	cv4	cv5	co2	co3	co4
Hardware Maintenance	116	310	474	519	1222	116	310	474
Software Maintenance	447	447	447	447	447	447	447	447
Space Occupancy	213	213	283	411	446	213	283	411
Total	776	970	1204	1377	2115	811	1040	1332

Figure B-2-8

MONTHLY SUPPORT COSTS FOR EXISTING SYSTEMS IN DOLLARS files. Assume the following for each standard production site:

DOS Sites - The M/COMP/FMS application plus all A/ISO and CA applications are implemented (refer to Section CC, Figure CC-6-3) on all DOS standard production systems.

AID Sites - All AID applications are implemented on all AID standard production systems.

USIA Sites- There are no Standard Production sites; the DR application is implemented on DOS standard production systems.

NOTE: Refer to Section L, Paragraph L.1.3.4, for instructions pertaining to a mechanism in the Firm-Fixed Pricing Methodology for reducing the number of standard applications implemented at a standard production site.

For conversion and implementation of the foreign standard production system data files, Section J, Attachment XIII shows the average for each site, regardless of agency, and this is to be used for evaluation purposes.

B.3 SUBMISSION OF COST PROPOSAL

Each Offeror is required to submit cost data on magnetic media, as well as in hard copy format.

B.3.1 Magnetic Media Submission

DOS requires the submission of two files, designated File A and File B. File A must contain one or more records defining the unit cost and other pertinent data for each separately priced item of hardware, software, and support services, including appropriate Government costs, which are offered to the Government or required by this procurement. In addition to unit cost records, summary records may be required for the purpose of referencing total costs when it is more expeditious. These summary records must be verifiable through hard copy data presented by the Offeror. File B must contain one or more records for each installation site and future upgrades per contract month with references to the applicable File A items to be included in that installation. In addition, File B will contain "dummy" site records to accommodate the costs for Group Conversion Plans and the general items which are not site specific. Tapes may be submitted with File A on Tape A and File B on Tape B, or a single tape or diskette containing both files may be submitted. The files may be output from the Offeror's use of BACES or they may be prepared in some other fashion and entered on tapes or a diskette using the formats in Table B-9.

B.3.2 Hardcopy Submission

Facsimiles of Tables B-1 through B-6 may be prepared and submitted as direct output from the Offeror's use of BACES or manually or otherwise entered on the formats displayed in Tables B-1 through B-6. Tables B-1 through B-5a represent the unit prices for all File A items. Table B-6 represents the monthly and summary total roll-up adjusted for present value, by major category. In addition, each Offeror must submit the Cost Questionnaire using Tables B-8-1 through B-8-6. The Cost Questionnaire will contain basic identification and control data used by BACES in performing its calculations on the data in Files A and B.

Figures B-5a through B-5f are site conversion worksheets which must be submitted in conjunction with the magnetic and hard copy media.

B.3.3. Cost Verification

It is the responsibility of the Offeror to ensure that the cost elements and totals submitted on magnetic media agree with those submitted on hard copy and that both are complete and correct. If, in its cost evaluation, the Government finds that the two submissions do not agree, the Offeror may be required to reconcile them in the presence of the Contracting Officer or his designated representative.

B.3.4 Conversion Cost Justification

It is the responsibility of the Offeror to ensure that the cost elements relative to the conversion requirements are justified by the Offeror's approach to the conversion and the Offeror-proposed fixed-priced methodology. To substantiate the conversion costs, the Offeror must submit his firm-fixed-pricing methodology as Section 4 of Volume II-B which is described in Section L of this RFP.

B.3.5 Contract Line Item Numbers

Contract line item numbers (CLINs) for both hard copy and magnetic media submission must be grouped as follows:

CLIN Series	Item
1XXX	Hardware items
2XXX	Software items
3XXX	Support Services (Section C)
4XXX	Support Services (Section CC)
5XXX	Training (Section C)
61XX	Phase I conversion training

62XX	Initial conversion user training
63XX	Future conversion user training
7XXX	Manuals and publications (Section C)
71XX	Manuals and publications (Section CC)
8XXX	Per-Call Maintenance (Refer to Paragraph B.2.1.i.4)
nnnn	Travel and Per Diem Costs (Refer to Paragraph B.3.6)
9003	Space occupancy costs (where no source system is replaced)
9004	Space upgrade costs (where no source system is replaced)

B.3.5.1 Sub-CLIN

A four character field for further identification within a particular Contract Line Item Number is available. In some cases, Offerors must abide by specific guidelines for the use of the Sub-CLIN. If guidelines are not provided, Offerors may use the Sub-CLINs at their discretion but they must provide an explanation.

Where Sub-CLINs are used to identify a site or a group of systems, the Offeror must use the identifying Sub-CLINs consistently with all associated CLINs.

B.3.6 Travel and Per Diem Expenses

For each cost item identified by a CLIN, attendant travel and/or per diem costs must be identified using the CLIN with which the travel/per diem costs are associated and a pre-assigned Sub-CLIN in accordance with Figure B-3-1. Where one attendant cost supports multiple components, those attendant costs may be attached to one component (such as training or conversion), and need not be prorated.

CLIN	Sub-CLIN	Description	Cost
nnnn*	S001	Round trip air fare to domestic site**	$ 250.00
	S002	Per diem for domestic travel**	$ 75.00
	S003	Round trip air fare to foreign site	$1000.00
	S004	Per diem for foreign travel	$ 100.00

* Refer to Paragraph B.3.6.

** Outside of Washington, D.C. Metropolitan Area.

Figure B-3-1

TRAVEL AND PER DIEM EXPENSES

Figure B-3-1 also shows, for evaluation purposes, expenses for travel and per diem. These figures will be used, unless the Offeror proposes less, to compute the overall cost based on the Offeror's statement of the amount of travel required. Include these items and the number of occurrences in each configuration given in File B. Include in File A the appropriate CLIN/Sub-CLIN records.

Travel and per diem requirements must be substantiated by the Offeror's firm-fixed price methodology described in Section L.

B.4 PREPARATION OF UNIT PRICE TABLES

The hardware model numbers, quantities, Contract Line Numbers (CLINs) and prices in the Unit Price Tables (Table B-1) must be identical to those submitted as part of File A and identical to those used to configure the installed systems to be summarized on Table B-6. In the same manner, the software, support services, training, conversion tasks and tools, and manuals and publications in Unit Price Tables B-2 through B-5a must be identical to those submitted as part of File A and identical to those summarized on Table B-6. If the unit price or any of the other terms and conditions of an item varies between sites or by geography, a separate CLIN must be assigned to each and a separate entry must be made in Field A and the appropriate hard copy table. All mandatory items offered must be listed in the Unit Price Tables and appear in File A. If no cost is associated with an item, N/C (no charge) or zeros will be entered in the Unit Price Field.

B.4.1 Hardware Unit Price Schedule

Table B-1 is to contain the hardware unit price schedule for the equipment offered. At some sites, the Contractor is to install a system that does not replace a source system (hence no conversion).

Section C, Subsection C.11 indicates the square footage that the Government will provide. If the Contractor's system requires more space, use CLIN 9003 for Space Occupancy of the additional space, and CLIN 9004 for Space Upgrade. In Column 2 enter a description; in Column 3 under Special Plans, enter the product of the extra square footage required and $25 per square foot (for CLIN 9003); in Column 7, enter the product of the extra square footage required and $120 per square foot; leave all other columns blank.

a. Column 1 - Contract Line Item Number (CLIN). Enter a sequential line number starting with "1001". Each different device offered must have a unique CLIN. Upgrades to memory must be priced separately and have a unique CLIN. Following the last hardware line entry enter "Last Hardware Item".

b. Column 2 - Item Description. Enter the equipment component/ feature model number. This should be the same as the ADP Schedule Price List or Commercial Price List number, and must be the same as the number shown in the hardware equipment list of this Proposal. Also enter a short description (CPU, Controller, etc.). If the unit is to be priced differently for different configurations, then a different CLIN must be used and the configuration for which the CLIN applies must be included in the item description.

c. Column 3 - Unit Prices Offered. Four prices, as set forth below, will be entered for each CLIN. If the price changes from one month to the next, it must be treated as a new entry under the same line item number. Prices are to reflect any discounts offered (excluding prompt payment discounts) and must be applicable for the use period shown in Column 5. Price items like monthly purchase option credits, or basic use terms and extra use rates should be explained in footnotes or supplemental tables (to be submitted in Section 4 - Costing Information Questionnaires). Purchase option credits greater than 100% of monthly charges will not be considered in evaluating offers for award.

1. Purchase Price. Enter the single component purchase price which applies.

2. Basic Monthly Maintenance Charge. Enter the single component basic monthly maintenance charge for the prescribed period of maintenance. This charge will include the required preventive and remedial maintenance, parts, travel, per diem, etc. A supplementary table should be submitted in Section 4 providing details on all maintenance alternatives available. (If maintenance is not included as part of the monthly rental, then a new column must be added listing the component maintenance prices unless it is the same as the maintenance for Government-owned equipment.)

3. Monthly Rental. Enter the single component basic monthly rental charge which applies during each month for the period indicated in Column 5. Enter a suffix "I" if maintenance is included with the stated monthly rental; enter an "X" if it is excluded.

4. Special Plans. Enter the single component price for any lease-to-ownership plan or other special plan offered.

d. Column 4 - Quantity. Enter the number of units of this device for which this CLIN's associated price pertains. If the price is to pertain to "each" CLIN ordered, then enter 1. If the

CLIN differs for different configurations, then different CLINs must be used.

e. Column 5 - Months of Usage. Enter in Column 5a "From" the first month (numbering from Contract Award) that this component (with the prices shown) will be installed. If an item has only a one time charge, the month in which that charge is due should be entered here. Enter in Column 5b "Until" the last month of component use (numbering from Contract Award) that this component or the prices listed apply. For one-time charges the month in which that charge is due should also be entered here.

f. Column 6 - Power Requirements. Enter in Column 6a, "Electrical," the single component electrical power requirement of this device in kilowatts per hour to four decimal places. Enter In Column 6b, "Air Conditioning," the single component air conditioning requirements in BTU's per hour.

g. Column 7 - Installation. Enter in Column 7 the installation price for installment of the device shown in Column 2.

h. Column 8 - ADP Schedule Prices. If an Offeror does not have a GSA ADP Schedule, he shall substitute his commercial list prices in this column and indicate that this is a commercial price. Three prices will be entered:

   1. Purchase Price. Enter the single component purchase price which applies.

2. Basic Monthly Maintenance Charge (Purchase). Enter the single component basic monthly on-call purchase maintenance charge for the Principal Period Maintenance. This charge will include the required preventive and remedial maintenance, parts, travel, per diem, etc.

3. Monthly Rental. Enter the single component basic monthly rental charge which applies.

B.4.2 Software Unit Price Schedule

Table B-2 is to contain a complete listing of the software unit price schedule for the software packages offered. The prices listed are to reflect any discounts offered and must be applicable for the use period shown in Column 4.

a. Column 1 - CLIN. Enter a sequential line item number starting with "2001". Each different software package offered must have a unique CLIN. Following the last software line entry enter "Last Software Item".

b. Column 2 - Item Description Software. Enter the name or a short description of the software package associated with the CLIN in Column 1.

c. Column 3 - Unit Prices Offered. Five prices will be entered for each line item. If the prices change from one month to the next a new entry must be made under the same line item number showing the new price.

   1. Purchase Price. Enter the outright purchase price or fully paid-up license fee of the software package.

2. Monthly Maintenance. Enter any maintenance or support price associated with the software package. (If rental maintenance or support is not included as part of the monthly rental price or monthly licensing fee, then a new column must be added listing the item maintenance prices unless it is the same as the maintenance for Government-owned.)

3. Monthly Rental. Enter the monthly rental price or monthly licensing fee for the software package.

4. Special Plan(s). Enter the price associated with any special procurement plan available for this software package.

5. One-Time Expenses. Enter the cost of installation and other one-time expenses.

d. Column 4 - Months of Usage. Enter in Column 4a, "From," the first month (numbering from Contract Award) that this package is to be used. Enter in Column 4b "Until," the last month that this package or prices apply.

B.4.3 Support Services Price Schedule

B.4.3.1 Support Services in Support of Section C

Table B-3 is to contain a complete listing of the support services price schedule for the hardware and software offered (other than those services related to conversion).

a. Column 1 - CLIN. Enter a sequential line item number starting with "3001". Use a separate CLIN for each category of support services proposed, e.g., programmer/analyst, technician, etc. Also use a separate CLIN if the charges are different for the geographical areas (refer to Figure C-9). Following the last services line entry enter "Last Service Item".

b. Column 2 - Item Description. Enter a short description of the services associated with the CLIN in Column 1.

c. Column 3 - Price Rates. Enter the hourly, daily, monthly, yearly, or one-time price rates for each of the services offered.

d. Column 4 - Special Rates. Enter any special rates that might apply for the services offered.

e. Column 5 - Quantity. If the services offered come in quantities, enter the quantity offered (in such cases, be sure that the prices listed are unit prices).

f. Column 6 - Months of Usage. Enter in Column 6a "From" the first system life month the service (or price) applies. Enter in Column 6b "Until" the last system-life month the service (or price) applies.

B.4.3.2 Support Services in Support of Section CC

Conversion support services must be submitted on two tables. Table B-3a accommodates all conversion support services except conversion software (which includes tools and aids, software configuration management systems, and work package monitoring and tracking systems which are listed on Table B-3b). Note: Conversion training (Table B-4a) and conversion manuals (Table B-5a) are separate categories and are not listed with conversion support services.

Some of the sub-CLINs require identification numbers for the Initial Development Sites. The following identifiers are assigned to these sites:

Identifier Number	Site Code (Section J, Attachment IX)	Site Name (Section CC, Figure CC-6-3)
1	209010	DOS A/ISO
2	280210	DOS CA
3	085000	DOS M/COMP/FMS
4	CE1000	AID-IRM
5	D11201	AID-CR
6	B10000	USIA

B.4.3.2.1 Table B-3a

Table B-3a is to contain a complete listing of the price schedule for selected services required to support the conversion project.

a. Column 1 - CLIN/Sub-CLIN. Figure B-4-1 provides a list of pre-assigned CLINs (many of which must be extended by the Offeror to include Sub-CLINs) which must be used in conjunction with Table B-3a. Offerors may assign additional four thousand series CLIN (other than those which are pre-assigned) to items deemed necessary conversion support services.

   Offerors must abide by the Sub-CLIN guidelines associated with pre-assigned CLINs and must provide explanations for the use of Offeror-assigned CLIN and Sub-CLINs.

CLIN	SUBCLIN	DESCRIPTION	APPLICABLE TABLE
4001		Finalize User Conversion Training Plan	B-3a
4002		Finalize Master Conversion Plan (MCP)	B-3a
4003	01nn*[1]	Test Data Generation Tools/Aids	B-3b
4003	02nn*[1]	Test Path Monitor Tools/Aids	B-3b
4003	03nn*[1]	Source Program Translator Tools/Aids	B-3b
4003	04nn*[1]	File Converions Tools/Aids	B-3b
4003	05nn*[1]	Work Package Testing Tools/Aids	B-3b
4004		Tools/Aids Optimization Report	B-3a
4005		Test File Generation Tools/Aids Test Report	B-3a
4006		Test Path Tools/Aids Test Report	B-3a
4007		Language Specific Tools/Aids Test Report	B-3a
4008		File Conversion Tools/Aids Test Report	B-3a
4009		Work Package Tools/Aids Test Report	B-3a
4010		Software Configuration Management Systems	B-3b
4011		Work Package Monitoring and Tracking Systems	B-3b
4012		Final Group Conversion Plan (GCP) for Initial Development Sites	B-3a

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*[1] The first two characters of the Sub-CLIN are pre-assigned to designate the type of tool/aid within CLIN 4003. The second two characters identify unique tools/aids within the designated type. Increment nn beginning with 01 to differentiate the unique tools/aids within the designated type.

Figure B-4-1

PREASSIGNED CONVERSION CLINs

CLIN	SUBCLIN	DESCRIPTION	APPLICABLE TABLE
4013		Government Resource Requirements per Initial Development Site:	B-3a
	010n*[2]	- Use of terminal at $250 each per month	
	020n*[2]	- Use of terminal at $200 each per month	
	030n*[2]	- Use of terminal space at $106 per month	
4014	C-0n*[3]	Final Site Conversion Plan (SCP) per Initial Development Site - Contractor Costs	B-3a
4014	G-0n*[3]	Final Site Conversion Plan (SCP) per Initial Development Site - Government Costs	B-3a

---

*[2] In addition to the Contractor costs for conversion at the Initial Development Sites, there will be certain Government costs in support of the conversion which must be charged to the conversion effort. These are indicated by the first two characters of the Sub-CLIN as follows:

01	Use of up to 10 terminals - $250 per terminal per month
02	Use of terminals in excess of 10 - $200 per terminal per month
03	Office space of 75 sq. ft. per terminal - $106 per terminal per month

Increment the first two characters beginning with 04 to identify Offeror-proposed Government resources.

The fourth character indicates the development site to which the cost applies (Paragraph B.4.3.2). Replace the n with the applicable identifier.

*[3] The first two characters of the Sub-CLIN are pre-assigned to separate Contractor and Government Costs for the final draft of the SCPs for the initial development sites.

The fourth character indicates the development site to which the cost applies (Paragraph B.4.3.2). Replace the n with the applicable identifier.

Figure B-4-1 (Cont'd)

PREASSIGNED CONVERSION CLINs

CLIN	SUBCLIN	DESCRIPTION	APPLICABLE TABLE
4015	XXYn*[4]	Initial Conversion Work Packages	B-3a
4016	XXYn*[4]	Initial Conversion Test Data Generation	B-3a
4017	XXYn*[4]	Initial Conversion of Standard Applications and Glossaries	B-3a
4018	XXYn*[4]	Initial Conversion of Data Files	B-3a
4019	XXYn*[4]	Initial Conversion of Operational Control Language	B-3a
4020	XXYn*[4]	Initial Conversion Redocumentation	B-3a
4021	XXYn*[4]	Initial Converted Work Package and System Testing	B-3a
4022	X00n*[5]	Initial Development Site Source System Parallel Testing and Other Contractor Unique Costs	B-3a

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*[4] The first two characters of the Sub-CLIN identify the application to which the conversion applies. Replace XX with the application identifier as shown in Section CC, Figure CC-6-3.

The third character, Y, indicates if the CLIN pertains to Contractor or Government costs. Replace the Y with C or G to indicate the type of cost.

The last character indicates the development site to which the cost applies (Paragraph B.4.3.2). Replace the n with the applicable identifier.

*[5] This CLIN represents the cost for parallel testing the source system at an initial development site and is also to be used for Contractor unique costs.

The first character indicates if the CLIN pertains to Contractor or Government costs. Replace the X with C or G to indicate the type of cost.

The last character indicates the development site to which the cost applies (Paragraph B.4.3.2). Replace the n with the applicable pre-assigned identifier.

Figure B-4-1 (Cont'd)

PREASSIGNED CONVERSION CLINs

CLIN	SUBCLIN	DESCRIPTION	APPLICABLE TABLE
4023	XX0n*[6]	Initial Conversion Optimization Reports	B-3a
4024	X00n*[7]	Development Site Ongoing Personnel Costs	B-3a

---

*[6] The first two characters of the Sub-CLIN identify the application identifier (Section CC, Figure CC-6-3) to which the optimization report applies. Replace XX with an application identifier.

The last character indicates the development site to which the cost applies (Paragraph B.4.3.2). Replace the n with the applicable identifier.

*[7] This CLIN represents the personnel costs for ongoing operations at the initial development sites. For ongoing operations at each development site, government personnel costs for three persons, ie., an operator, a system administrator and a senior programmer analyst, will be assessed for each installed computer. The annual cost will be $72,000 per person and it is to be assessed beginning with the installation date continuing until it or the Wang development computer is de-installed.

The first character of this Sub-CLIN indicates if the CLIN pertains to Contractor or Government costs. Replace the X with C or G to indicate the type of cost.

The last character indicates the development site to which the cost applies (Paragraph B.4.3.2). Replace the n with the applicable identifier.

Figure B-4-1 (Cont'd)

PREASSIGNED CONVERSION CLINs

CLIN	SUBCLIN	DESCRIPTION	APPLICABLE TABLE
4025	Xnnn*[8]	Group Conversion Plans - Future Conversions	B-3a
4026	Xnnn*[8]	Ongoing Hardware Maintenance Cost - Future Source Systems (starting with installation until the converted applications are accepted)	B-3a
4027	X00n*[9]	Site Upgrade Cost - Initial Conversions - Target Systems	B-3a
4028	Xnnn*[8]	Site Upgrade Cost - Future Conversions - Target Systems	B-3a
4029	X00n*[9]	System Space Cost - Initial Conversions - Target Systems	B-3a
4030	Xnnn*[8]	System Space Cost - Future Conversions - Target Systems	B-3a
4031	RESERVED		
4032	Xnnn*[8]	WP Document Conversion - Future Target Systems	B-3a
4033 to 4038	Xnnn*[8] or X00n*[9]	Contractor Specified Deliverables and Schedule	B-3a
4039		Master Conversion Plan (MCP) Management and Status Reports	B-3a

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*[8] The first character of this Sub-CLIN indicates if the CLIN pertains to Contractor or Government costs. Replace the X with C or G to indicate the type of cost.

Increment nnn beginning with 001 to identify the future site or the permutation of systems to which the costs pertain. Refer to Paragraph B.5 for further guidance on the use of permutations of source systems.

*[9] The first character of this Sub-CLIN indicates if the CLIN pertains to Contractor or Government costs. Replace the X with C or G to indicate the type of cost.

The last character indicates the development site to which the cost applies (Paragraph B.4.3.2). Replace the n with the applicable identifier.

NOTE: CLINs 4033 thru 4038 are available for Contractor use. The same rules specified in [8] and [9] are applicable.

Figure B-4-1 (Cont'd)

PREASSIGNED CONVERSION CLINs

CLIN	SUBCLIN	DESCRIPTION	APPLICABLE TABLE
4040	nnnn*[10]	Group Conversion Plans (GCPs) Management and Status Reports	B-3a
4041	Xnnn*[11]	Site Conversion Plans (SCPs) Management and Status Reports	B-3a
4042	Xnnn*[11]	Software Inventory	B-3a
4043	Xnnn*[11]	Draft of Site Conversion Plan	B-3a
4044	Xnnn*[11]	Work Packages Completion	B-3a
4045	Xnnn*[11]	Test Data Generation	B-3a
4046	Xnnn*[11]	Application Software Conversion	B-3a
4047	Xnnn*[11]	Data File Conversion	B-3a
4048	Xnnn*[11]	Operational Control Language (OCL) Conversion	B-3a
4049	Xnnn*[11]	Redocumentation	B-3a
4050	Xnnn*[11]	Converted Work Package and System Testing	B-3a
4051	Xnnn*[11]	Optimization Reports	B-3a
4052	Xnnn*[11]	Development of Application Documentation	B-3a
4053	Xnnn*[11]	Final Site Conversion Plan, Future Conversion Sites	B-3a

---

*[10] Increment nnnn beginning with 0001 to assign a group number to which the CLIN pertains. The groups consist of future conversion sites.

*[11] The first character of this Sub-CLIN indicates if the CLIN pertains to Contractor or Government costs. Replace the X with C or G to indicate the type of cost.

The last three characters identify the site or the permutation of source systems to be converted in the future. Refer to Paragraph B.5 for further guidance on the use of permutations of source systems. Increment nnn beginning with 001 to assign an identifier to which the cost applies.

Figure B-4-1 (Cont'd)

PREASSIGNED CONVERSION CLINs

CLIN	SUBCLIN	DESCRIPTION	APPLICABLE TABLE
4054	Xnnn*[12]	Parallel Testing and Other Unique Contractor Costs - Future Source Systems	B-3a
4055	X00n*[13]	Parallel Testing and Other Unique Contractor Costs - Initial Development Target Systems	B-3a

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*[12] This CLIN represents the cost for parallel testing a future source system(s) and any Contractor unique costs.

The first character of this Sub-CLIN indicates if the CLIN pertains to Contractor or Government costs. Replace the X with C or G to indicate the type of cost.

The last three characters identify the source systems to be parallel tested in the future. Source systems may be represented by a number for each site or by each unique permutation of source systems. Refer to Paragraph B.5 for further guidance on the use of permutations of source systems. Increment nnn beginning with 001 to assign an identifier to which the source system parallel testing cost applies.

*[13] This CLIN represents the cost for parallel testing the target system at an initial development site and any Contractor unique costs.

The first character of this Sub-CLIN indicates if the CLIN pertains to Contractor or Government costs. Replace the X with C or G to indicate the type of cost.

The last character indicates the development site to which the cost applies (Paragraph B.4.3.2). Replace the n with the applicable identifier.

Figure B-4-1 (Cont'd)

PREASSIGNED CONVERSION CLINs

CLIN	SUBCLIN	DESCRIPTION	APPLICABLE TABLE
4056	Xnnn*[14]	Parallel Testing and Other Contractor Unique Costs - Future Target Systems	B-3a

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*[14] This CLIN represents the cost for parallel testing a future target system and other Contractor unique costs.

The first character of this Sub-CLIN indicates if the CLIN pertains to Contractor or Government costs. Replace the X with C or G to indicate the type of cost.

The last three characters identify the target system to be parallel tested in the future. Target systems may be represented by a number for each site or by each unique permutation of target systems. Refer to Paragraph B.5 for further guidance on the use of permutations of target systems. Increment nnn beginning with 001 to assign an.identifier to which the target system parallel testing cost applies.

Figure B-4-1 (Cont'd)

PREASSIGNED CONVERSION CLINs

CLIN	SUBCLIN	DESCRIPTION	APPLICABLE TABLE
6100	Xnnn*[15]	Phase I Conversion Training	B-4a
6200	Xnnn*[15]	Initial Conversion User Training	B-4a
6300	Xnnn*[15]	Future Conversion User Training	B-4a
71XX	*[16]	Manuals and Publications	B-5a

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*[15] The first character of this Sub-CLIN indicates if the CLIN pertains to Contractor or Government costs. Replace the X with C or G to indicate the type of cost.

The last three characters of this Sub-CLIN identify each course required to accomplish the required training. Increment nnn beginning with 001 to assign an identifier to which the training costs apply.

*[16] Replace the XX with an unique number to be identified with the applicable tool/aid or system.

Figure B-4-1 (Cont'd)

PREASSIGNED CONVERSION CLINs

Following the last services line entry, enter "Last Service Item".

b. Column 2 - Item Description. Enter the name or a short description of the support service associated with the CLIN and Sub-CLIN in Column 1.

c. Column 3 - Price Rates. Enter the hourly, daily, monthly, yearly, or one-time price rates for each of the services offered.

d. Column 4 - Special Rates. Enter any special rates that might apply for the services offered.

e. Column 5 - Quantity. If the services offered come in quantities, enter the quantity offered (in such cases, be sure that the prices listed are unit prices).

f. Column 6 - Months of Usage. Enter in Column 6a "From" the first system life month the service (or price) applies. Enter in Column 6b "Until" the last system-life month the service (or price) applies.

B.4.3.2.2 Table B-3b

Table B-3b is to contain a complete listing of the unit price schedule for the software being offered to support the conversion requirements. The prices listed are to reflect any discounts offered and must be applicable for the use period shown in Column 4.

a. Column 1 - CLIN/Sub-CLIN. Refer to Figure B-4-1 and enter the following CLINs:

1. 4003 for tools and aids.

2. 4010 for software configuration management systems.

3. 4011 for work package monitoring and tracking systems.

Offerors may assign additional four thousand series CLINs (other than those otherwise assigned) to items deemed necessary software conversion support services.

Offerors must abide by the Sub-CLIN guidelines associated with pre-assigned CLINs and must provide explanations for the use of Offeror-assigned CLINs and Sub-CLINs.

Following the last services line entry, enter "Last Conversion Software Item."

b. Column 2 - Software Item Description. Enter the name or a short description of each software package offered.

c. Column 3 - Unit Prices Offered. Four prices will be entered for each line item. If the prices change from one month to the next a new entry must be made under the same line item number showing the new price.

   1. Purchase Price. Enter the outright purchase price or fully paid-up license fee of the software package.

   2. Monthly Maintenance. Enter any maintenance or support price associated with the software package. (If rental maintenance or support is not included as part of the monthly rental price or monthly licensing fee, then a

new column must be added listing the item maintenance prices unless it is the same as the maintenance for Government- owned.)

3. Monthly Rental. Enter the monthly rental price or monthly licensing fee for the software package.

4. Special Plan(s). Enter the price associated with any special procurement plan available for this software package.

d. Column 4 - Months of Usage. Enter in Column 4a, "From," the first month (numbering from Contract Award) that this package is to be used. Enter in Column 4b "Until," the last month that this package or prices apply.

B.4.4 Training Price Schedules

B.4.4.1 Training Price Schedule in Support of Section C

Table B-4 is to contain a complete listing of the training course price schedule for the systems offered. Courses offered as a package may be assigned a "package CLIN" in addition to the individual course CLINs.

a. Column 1 - CLIN. Enter a sequential line item number starting with "5001". Use a separate CLIN for a particular training course (e.g. word processing) if training by type student (i.e., M-Management, P-Professional/S-ADP Specialist, C-Clerical/O-Other) is priced differently; and/or if the type training (e.g. initial (upon installation), annually or as requested) is priced differently; and/or if the language to be taught in (French, Spanish, Arabic or Chinese) is to be priced differently; and/or if the geographical area where the training will take place is priced differently, and/or for other reasons that the Offeror may have to price a training course differently.

Following the last training entry, enter "Last Training Item."

b. Column 2 - Course Number and Title. Enter the course number and title of the course associated with the CLIN in Column 1.

c. Column 3 - Location. Enter the location where the training courses shown in Column 2 will take place.

d. Column 4 - Unit Prices. Enter the unit prices for the training courses shown in Column 2.

e. Column 5 - One-Time Charges. Enter any one time charges that will be applicable to the training courses shown in Column 2. A supplemental table or footnote must be provided explaining any one time charge.

f. Column 6 - Cost For Additional Students. Enter the cost for each additional student attending the class.

g. Column 7 - Month Scheduled. If applicable, enter the month in which training for the courses in Column 2 will take place.

B.4.4.2 Training Price Schedule in Support of Section CC

Table B-4a is to contain a complete listing of the training course price schedule for conversion and end-user training required for converted applications.

a. Column 1 - CLIN/Sub-CLIN. Refer to Figure B-4-1 and enter one of three preassigned CLINs for training. Offerors may assign additional CLINs, ranging from 6101 to 6399 excluding 6200 and 6300, for conversion training deemed necessary.

   Offerors must abide by the Sub-CLIN guidelines associated with pre-assigned CLINs and must provide explanations for the use of Offeror-assigned CLINs and Sub-CLINs.

   Following the last training line entry enter "Last Conversion Training Item".

b. Column 2 - Course Number and Title. Enter the course number and title of the course associated with the CLIN in Column 1.

c. Column 3 - Location. Enter the location where the training courses shown in Column 2 will take place.

d. Column 4 - Unit Prices. Enter the unit prices for the training courses shown in Column 2.

e. Column 5 - One-Time Charges. Enter any one time charges that will be applicable to the training courses shown in Column 2. A supplemental table or footnote must be provided explaining any one time charge.

f. Column 6 - Cost For Additional Students. Enter the cost for each additional student attending the class.

g. Column 7 - Month Scheduled. If applicable, enter the month in which training for the courses in column 2 will take place.

B.4.5 Manuals and Publications Price Schedules

B.4.5.1 Manuals and Publications Price Schedule in Support of Section C

Table B-5 is to contain a complete listing of manuals and publications price schedule for those offered. Manuals and publications offered as a package may be assigned a "package CLIN" and price separate from the individual CLINs.

a. Column 1 - CLIN. Enter a sequential line item number starting with "7001". Use a separate CLIN for a particular manual or publication (e.g. word processing) if the purpose (i.e. with delivery of equipment and software, or as requested) is priced differently; and/or if the language to be written in (e.g. French, Spanish, Arabic, English, or Chinese) is priced differently; and/or for other reasons that the Offeror may have to price a manual or publication differently.

Following the last entry for manuals and publications, enter "Last Publication Item."

b. Column 2 - Manual/Publication Number and Title. Enter the manual/publication number (if no number, so state) and the title of the manual/publication associated with the CLIN in Column 1.

c. Column 3 - Unit Price. Enter the unit prices for the manual/ publications shown in Column 2.

d. Column 4 - Quantity. Enter the minimum quantity that is available at the unit price stated in Column 3.

e. Column 5 - Months Valid. Enter in Column 5a "From" the system-life month from which the price applies. Enter in Column 5b "Until" the last system-life month the price applies.

B.4.5.2 Manuals and Publications Price Schedule in Support of Section CC

Table B-5a is to contain a complete listing of manuals and publications price schedule for those offered to support the conversion effort.

a. Column 1 - CLIN. Enter a sequential line item number starting with "7101".

Following the last entry for conversion manuals and publications, enter "Last Conversion Publication Item."

b. Column 2 - Manual/Publication Number and Title. Enter the manual/publication number (if no number, so state) and the title of the manual/publication associated with the CLIN in Column 1.

c. Column 3 - Unit Price. Enter the unit prices for the manual/ publications shown in column 2.

d. Column 4 - Quantity. Enter the minimum quantity that is available at the unit price stated in column 3.

e. Column 5 - Months Valid. Enter in Column 5a "From" the system-life month from which the price applies. Enter in Column 5b "Until" the last system-life month the price applies.

B.5 PREPARATION OF SITE CONVERSION WORKSHEETS

Figure B-5a, B-5b, B-5c, B-5d, B-5e, and B-5f are the site conversion worksheets which are to be used to summarize vendor efforts and associated costs to complete the site conversion requirements described in Subsections CC.6.4 (Development Sites) and CC.8 (Future Conversion sites). Figure B-5a, B-5b, and B-5c will contain future conversion site data, while B-5d, B-5e, and B-5f are to be used for the initial development site conversion. Columns are provided to enter the number of staff days and costs for both the Contractor and the Government. Offerors must itemize the costs for each listed government required item with either a firm-fixed-price based on their FFP methodology or enter "No Cost" if there are no associated costs. In either case, Offerors must enter the number of staff days to accomplish each task. Offerors must submit and justify detailed definitions of the actually required staff days and associated, proposed costs for all Offeror proposed activities and for all required Government efforts and associated costs.

This worksheet requests data pertaining to the source system(s) to be converted in the future to a target system.

Site/Permutation:
Enter number of source systems to be converted in the specified year: _____
#___co2; #___co3; #___co4; #___cv1; #___cv2; #___cv3; #___cv4; #___cv5
Are the conversion costs applicable to both foreign and domestic sites? _____
If not, circle the applicable one: FOREIGN DOMESTIC
Enter the contract year in which the conversion occurs: _____
List the Subclin identifier (to follow the "C" or "G"[1]): _____
List the organization codes at which the conversion occurs: _____

KEY: SD = Staff Days
TC = Total Cost
CLIN = Contract Line Item Number

TASK	CLIN	CONTRACTOR SD	CONTRACTOR TC	GOVERNMENT SD	GOVERNMENT TC
SITE CONVERSION PLAN (CC.8.4)					
Government Required Items:					
- Software Inventory					
- Evaluation and Appraisal					
- Conversion Task Package					
- User Training Plan					
- Software and Testing Evaluation Plan					
- Site Conversion and Implementation Schedule					
- Quality Assurance Plan					
Offeror's Proposed Items					
- ____________					
- ____________					
Draft SCP	4043				
Final SCP	4053				
TOTAL SCP COST:					

[1] The first character of this Sub-CLIN is pre-assigned: C = Contractor Costs, G = Government Costs. The last three characters identify the site or the permutation of source systems to be converted in the future.

FIGURE B-5a
SITE CONVERSION PLAN WORKSHEET
FUTURE SITES

This worksheet requests data pertaining to the source system(s) to be converted in the future to a target system.

Site/Permutation:
Enter number of source systems to be converted:
#___co2; #___co3; #___co4; #___cv1; #___cv2; #___cv3; #___cv4; #___cv5
Are the conversion costs applicable to both foreign and domestic sites? _____
If not, circle the applicable one: FOREIGN DOMESTIC
Enter the contract year in which the conversion occurs: _____
List the organization codes at which the conversion occurs: _____

KEY: SD = Staff Days
TC = Total Cost
CLIN = Contract Line Item Number

	CLIN	CONTRACTOR		GOVERNMENT	
TASK		SD	TC	SD	TC
SITE CONVERSION - Source System Related (CC.8.5)					
Government Required Items					
- Work Package Definition	4044				
- Test Data Generation	4045				
- Appl. Software and Glossary Conversion	4046				
- OCL Conversion	4048				
- Data File/Base Conversion	4047				
- System and Acceptance Testing	4050				
- Optimization Report	4051				
- Redocumentation	4049				
- Parallel Testing	4054				
- Ongoing Hardware Maintenance	4026				
Offeror's Proposed Items:	4033-4038*[1]				
- ____________________					
- ____________________					
TOTAL SOURCE CONVERSION COST					

[1] See NOTE in Figure B-4-1.

FIGURE B-5b
SOURCE SYSTEM(S) CONVERSION COST WORKSHEET
FUTURE SITES

This worksheet requests data pertaining to the target system to which a future site conversion will occur.

Site/Permutation:
Target Environment Configuration:
Circle one: C1 C2 C3 C4 C5 C6
Are the conversion costs applicable to both foreign and domestic sites? ____
If not, circle the applicable one: FOREIGN DOMESTIC
Enter the contract year in which the conversion occurs: ____
List the organization codes at which the conversion occurs: ____

KEY: SD = Staff Days
TC = Total Cost
CLIN = Contract Line Item Number

TASK	CLIN	CONTRACTOR SD	CONTRACTOR TC	GOVERNMENT SD	GOVERNMENT TC
SITE CONVERSION - Target System Related (CC.8.5)					
Government Required Items					
- System and Acceptance Testing	4050				
- Site Upgrade Cost	4028				
- System Space Cost	4030				
- WP Document Conversion	4032				
- Parallel Testing	4056				
- Conversion Training Requirement	6300				
- Manuals and Publications	71XX				
Offeror's Proposed Items					
- ____	4033-4038[1]				
- ____					
TOTAL TARGET CONVERSION COST:					

[1] See NOTE in Figure B-4-1.

FIGURE B-5c
TARGET SYSTEM CONVERSION COST WORKSHEET
FUTURE SITES

This worksheet requests data pertaining to the source application system(s) to be converted in an initial development center to a target system.

Preassigned Site Sub-CLIN Identifier Number:

KEY: SD = Staff Days
TC = Total Cost
CLIN = Contract Line Item Number

TASK	CLIN	CONTRACTOR		GOVERNMENT	
		SD	TC	SD	TC
SITE CONVERSION PLAN (CC.8.4)					
Government Required Items:					
- Software Inventory					
- Evaluation and Appraisal					
- Conversion Task Package					
- User Training Plan					
- Software and Testing Evaluation Plan					
- Site Conversion and Implementation Schedule					
- Quality Assurance Plan					
Offeror's Proposed Items					
-					
-					
Final SCP	4014				

FIGURE B-5d
INITIAL SITE CONVERSION PLAN WORKSHEET

This worksheet requests data pertaining to the source application system(s) to be converted to an initial development center target system.

Preassigned Site Sub-CLIN Identifier Number:

KEY: SD = Staff Days
TC = Total Cost
CLIN = Contract Line Item Number

	CLIN	CONTRACTOR		GOVERNMENT	
TASK		SD	TC	SD	TC
SITE CONVERSION - Source System Related (CC.8.5)					
Government Required Items					
- Work Package Definition	4015				
- Test Data Generation	4016				
- Appl. Software and Glossary Conversion	4017				
- OCL Conversion	4019				
- Data File/Base Conversion	4018				
- System and Acceptance Testing	4021				
- Optimization Report	4023				
- Redocumentation	4020				
- Parallel Testing	4022				
- Govt Resource Req.	4013				
- Ongoing Personnel Costs	4024				
Offeror's Proposed Items:	4033-4038*[1]				
-					
-					
TOTAL SOURCE CONVERSION COST					

[1] See Note on Figure B-4-1.

FIGURE B-5e
INITIAL SITE SOURCE SYSTEM(S) CONVERSION COST WORKSHEET

This worksheet requests data pertaining to the target system to which an initial development center conversion will occur.

Preassigned Site Sub-CLIN Identifier Number:

KEY: SD = Staff Days
TC = Total Cost
CLIN = Contract Line Item Number

	CLIN	CONTRACTOR		GOVERNMENT	
TASK		SD	TC	SD	TC
SITE CONVERSION - Target System Related (CC.8.5)					
Government Required Items					
- System and Acceptance Testing	4021				
- Site Upgrade Cost	4027				
- System Space Cost	4029				
- Parallel Testing	4055				
- Conversion Training Requirement	6200				
- Manuals and Publications	71XX				
Offeror's Proposed Items					
-	4033-4038[1]				
-					
TOTAL TARGET CONVERSION COST, INITIAL SITE:					

[1] See NOTE in Figure B-4-1.

FIGURE B-5f
INITIAL SITE TARGET SYSTEM CONVERSION COST WORKSHEET

The Government will evaluate effort estimates for reasonableness and may adjust Government effort estimates accordingly, and question Vendor effort estimates, during the proposal evaluation process. The Offeror's estimate of Contractor and Government staff days and costs is to be based on the Offeror's proposed conversion approach(es). The estimate of Government costs are required for the purpose of calculating total life-cycle costs. Assume the fully burdened cost of a Government employee (regardless of grade) to be $72,000 per year.

Figure B-5a, B-5b, B-5d, and B-5e pertain to current or source systems subject to conversion, and Figure B-5c and B-5f reference conversion requirements pertaining to target systems. The totals computed on these site conversion worksheets will be entered in File A and referenced from File B to denote conversion costs for each site per occurrence of the de-installation of current systems being replaced by target systems.

For each initial development site, Offerors must submit Worksheets B-5d, B-5e and B-5f. The firm-fixed prices that are to be proposed for the conversion of the initial application systems (required in Subsection CC.6.4) are to be based on the Offeror's analysis of the software and documentation for those applications that are represented in the Department of State Reading Room. (Reference Attachment XVIII Section J, for Reading Room information.) CLIN 4014 (Final Site Conversion Plan per Initial Development Site) will include costs to validate and update these software inventories after contract award. Changes to the Initial Site Conversions may only be made if the Government changes its requirements in excess of the statement of changes in Paragraph CC.6.4.1 through negotiation based on the changed requirements.

In order to reduce the number of worksheets required for the mandatory optional future conversion sites, Offerors may choose to create groupings of source systems which are identical to those source systems being replaced at another site. These groupings are referred to as source system permutations and may be utilized on the Conversion Worksheets.

In order to create permutations of source configurations, Offerors should consult the Installation Schedule in Attachment J-IX, Figure IX-3, including the information following the schedule (Figure IX-4), to determine the source system(s) which need to be converted throughout the contract life. Each unique group of source systems scheduled for conversion is considered a source system permutation. For example, in contract year one, there are eight occurrences within the Department of State where only a co2 system will require conversion. These eight occurrences, plus any others which may occur at the other agencies during contract year one, could reference the source system permutation comprised of one co2.

In other words, if the source system(s) to be converted at one site are identical to the source system(s) to be converted at another site and the Offeror determines that the associated conversion costs are therefore identical, the Offeror may then consider the source system(s) to be a source system permutation. Offerors may choose to group foreign and domestic systems together or separately, and they may choose to group contract years together or separately, based on their assessment of the costs to meet the conversion requirements.

For each unique source system permutation, Offerors are to assign a number to be used as a Sub-CLIN associated with the CLINs shown on the Worksheets for entry in the applicable Tables and in File A. Figure B-4-1 provides instructions for the Sub-CLINs. If Offerors do not wish to create source system permutations, the

Worksheets must be prepared for each site requiring a conversion for each contract year, and a Sub-CLIN must be assigned for each CLIN shown on the Worksheets in order to differentiate the sites.

For the mandatory optional future conversion sites, Offerors must submit a Worksheet B-5c for each permutation of future target system configurations, or submit a Worksheet B-5c for each site, at their option. A separate Worksheet B-5f should be prepared for each development site.

Regardless of which method is chosen, a Sub-CLIN must be assigned to each CLIN shown on each Worksheet B-5c or B-5f.

Further instructions regarding Sub-CLINs are provided in Figure B-4-1.

With regard to conversion, the applications and data are to be assumed to be the same for TEMPEST and non-TEMPEST certified equipment.

Contractor travel and per diem costs associated with the conversion effort must be shown on each worksheet under the category "Offeror's Proposed Items" utilizing the CLIN/Sub-CLIN structure described in Subsection B.3.6.

B.5.1 Site Conversion Plan Worksheet (Figure B-5a and B-5d)

Figure B-5a and B-5d address the proposed costs and actual effort involved for preparing Site Conversion Plans. For each conversion effort at a site, per year, Offerors should enter the number of system configurations by source configuration category, the contract year, and whether the plar applies to both foreign and/or domestic conversions. A separate worksheet, Figure B-5a or B-5d, must be prepared whenever actual estimated efforts differ.

If the Offeror has chosen not to create source system permutations, the organization code to which the B-5a Worksheet applies should be entered. If the Offeror has chosen to create source system permutations, a list of the organization codes to which the worksheet applies should be attached.

Based on the proposed approach to the conversion requirements and the proposed firm-fixed-price methodology submitted as Section 4, Volume II-B of the Offeror's proposal, enter the number of required Contractor and Government staff days and costs for each component of the SCP (reference CC.8.4). For the initial development sites, draft SCPs are to be submitted with the Offeror's proposal and therefore Worksheet B-5d shows no associated costs for draft SCP. The costs for a draft SCP include those government required items and Offeror proposed items shown on Worksheet B-5a. The costs for the final SCP for initial development sites and future conversion sites are to be included in the worksheets. For each CLIN, the associated Sub-CLIN should be given in accordance with the Offeror's decision on the use of source permutations and the guidelines provided in Figure B-4-1. These CLINs and their associated Sub-CLIN should be listed in the applicable Tables and in File A and referenced from File B. The total SCP cost shown on Worksheets B-5a and B-5d is for validation purposes and is not entered in either file.

B.5.2 Source System(s) Conversion Cost Worksheet (Figure B-5b and B-5e)

Figures B-5b and B-5e address the proposed costs and actual efforts related to the conversion of the source systems. For each conversion effort. Offerors should enter the number of system configurations by source configuration category, the contract year to which the site conversion applies, and whether it applies to both foreign and domestic conversions. A separate Worksheet, Figure B-5b or B-5e, must be prepared whenever actual estimated efforts differ.

If the Offeror has chosen not to create source system permutations, the organization code to which the B-5b worksheet applies should be entered. If the Offeror has chosen to create source system permutations, a list of the organization codes to which the worksheet applies should be attached.

Based on the proposed approach to satisfy the conversion requirements and the proposed firm-fixed-price methodology submitted in accordance with Section L, enter the total number of actual Contractor and Government staff days and proposed costs for each component listed. Offerors should refer to Computer System Profiles, Attachment J-XIII, and the assumptions associated with current systems in Sections CC and B, to determine conversion requirements and calculate costs.

For each CLIN, the associated Sub-CLIN should be given in accordance with the Offeror's decision on the use of source permutations and the guidelines provided in Figure B-4-1. These CLINs and their associated Sub-CLIN should be listed in the applicable Tables and in File A and referenced from File B. The total source conversion cost shown on Worksheets B-5b and B-5e is for information purposes and is not entered in either file.

B.5.3 Target System Conversion Cost Worksheet (Figures B-5c and B-5f)

Figures B-5c and B-5f address the costs related to the target system when a conversion occurs. The costs associated with site upgrade and system and acceptance testing, and the word processing document conversion (future sites only) costs are one-time costs which, for evaluation purposes, occur with the installation of the target system. The system space cost is a continuous cost based on space utilization of the target system versus the source system(s). The costs associated with parallel operation, and conversion training occur regardless if the conversion takes place in conjunction with the installation of a target system or later in the contract life when current systems are merged with a previously installed target system. On Form B-5c, for each actual conversion effort, Offerors should circle the target system configuration, and indicate the contract year and organization codes to which the target system conversion costs apply, and whether they apply to both foreign and/or domestic conversions. For Form B-5f, only the preassigned site sub-CLIN identifier number (refer to Paragraph B.4.3.2) need be entered.

Offerors may elect to prepare Worksheet Figure B-5c for each target system installation or for each target system permutation. If the Offeror has chosen not to create target permutations, the organization code to which the B-5c Worksheet applies should be entered. If the Offeror has chosen to create target system permutations, a list of the organization codes to which the worksheet applies should be attached. A separate form B-5f must be completed for each initial development site.

Based on the proposed approach to the conversion requirements and the proposed firm-fixed-price methodology submitted in accordance with Section L, enter the actual number of Contractor and

[illegible] AVAILABLE

Government staff days and proposed costs for site upgrade costs, system and acceptance testing, system space costs, parallel operations and any other Offeror proposed items. Offerors should refer to Attachment J-XIII, and the assumptions associated with target systems in Sections CC and B to calculate these conversion costs.

For each CLIN, the associated Sub-CLIN should be given in accordance with the Offeror's decision on the use of source permutations and the guidance in Figure B-4-1. These CLINs and their associated Sub-CLIN should be listed in the applicable Tables and in File A and referenced from File B. The total target conversion cost shown on Worksheets B-5c and B-5f is for information purposes and is not entered in either file.

B.6 PREPARATION OF LIFE CYCLE COST SUMMARY

In Section 3 of Volume III, the Offeror is required to show the summation of proposed unit prices by month over the stated life of the contract described in the Solicitation Document. A separate Table B-6 should be submitted for each procurement plan offered and titled: "Table B-6 - Lease", "Table B-6 - Purchase", etc., as appropriate. Offerors should utilize the data contained on magnetic media tapes A and B to create Table B-6.

a. Installation Summary Price Table B-6 is essentially a full matrix summary (on the vertical axis) all of the contract line items being offered and (on the horizontal axis) all the months from contract award until the last month of the contract. The Table is filled in by entering the monthly price for every line item offered over the full systems life.

b. The columns are sub-totalled, and the rows and columns are cross-totalled to check entries. After the Offeror's monthly sub-totals have been validated, they are adjusted by the appropriate discount factors shown in Table B-6 to obtain the total.

B.7 PREPARATION OF BID ANALYSIS COST EVALUATION SYSTEM (BACES) COSTING QUESTIONNAIRES AND MAGNETIC MEDIA

As previously stated, the BACES developed by American Computer Systems Corporation (AMCCOR) will be used by the Department of State to perform the cost evaluation. The input data required for the cost evaluation calculations are specified in Tables B-8 and B-9 and must be submitted as Section 4, Volume III of the Offeror's proposal.

Tables B-8-1 through B-8-6, "COST QUESTIONNAIRE," are to be completed by the Offeror. These tables represent the pricing control data used by BACES in the calculation of life cycle costs. They contain such information as maintenance rates, discount and escalation schedules, LTOP and LWOP terms, POC schedules and zone surcharge schedules. The information contained in Tables B-8-1 through B-8-6 will be manually input to the cost model by the DOS evaluation team, with the exception of line item cost and system configuration data, which the Offeror will submit on both magnetic media (as specified in Table B-9) and paper copy (Table B-1). Instructions for each part of Table B-8 are at the bottom of the page.

Table B-9 provides specifications for the magnetic media which will be read directly by the cost model during the cost evaluation. Two files are required for submission; these files are referred to as "Tape A" and "Tape B" in Table B-9.

The data in Tables B-1 through B-5 will be used to verify the data on the magnetic tapes. Table B-8-8 and B-8-9 are provided as aids for the Offeror's convenience in preparing the data tapes; this submission is not required.

Offerors using the BACES model, rather than independent preparation, can submit audit trail output from the Vendor Section (which is the Cost Questionnaire) as well as screen prints from the Configuration Section to satisfy the requirements for Table B-8.

Offerors should direct any questions concerning BACES and/or Tables B-8 and B-9 to the Contracting Officer.

B.7.1 Tape A

This file contains the individual line item pricing data and other information for each separately priced item proposed. This would include such things as price escalations, geographical area surcharges and discounts. This data is referred to in Table B-9 as "Tape A". A separate Tape A record is to be created for each contract line item (CLIN) and its associated Sub-CLIN. The CLIN can represent detail costs or summary costs but it must be identifiable within the appropriate hard copy data required in Section B.

B.7.1.1 Supplemental Instructions

B.7.1.1.1 Power and Cooling Computation

The Offeror should not include a power and cooling CLIN in File A since the BACES model will automatically calculate and provide a power and cooling CLIN where necessary. The Offeror should provide the BTUs/hour and the kilowatt hours in positions 193-197 and 198-204 of the File A hardware records where appropriate.

BACES uses the following equation to compute the cost of power and cooling for each month:

$$\text{Monthly Cost} = (P+C) \times N \times .025$$

Where:

P = Power, in kilowatts, required to run all equipment.

C = Power, in kilowatts, required to provide the air conditioning and special liquid cooling, if required. Convert BTU's per hour to kilowatts using:

$$KW = \frac{BTU/H}{3413}$$

N = Number of hours the equipment will be running in the month. For the purpose of this computation, N will be 198.

.025 = Estimated cost for 1 KWH.

B.7.1.1.2 Prompt Payment Discounts

Although the Government will not consider prompt payment discounts in its evaluation, it will take advantage of them if they are offered. If the Offeror wishes to offer discounts for prompt payment, he must state clearly their amount and the terms under which they may be taken.

B.7.2 Tape B

The second part of Table B-9 relates to the configurations of items, systems, or services offered. This is referred to as "Tape

B". The hardware configurations are shown in Figure C-2. For each hardware configuration shown in Figure C-2 per site, per year, the vendor is instructed to create a Tape B record in the format shown in Table B-9. Each Tape B record will contain one or more items priced in Tape A, along with the quantity of each, installation data (as per Attachment IX), and certain other information as requested in the Tape B instructions. Other items, such as training and maintenance, should be treated in like manner.

Submission of a manually prepared configuration for each site is not a requirement, but preparation of one is highly recommended as an aid in the preparation of Table B-6. The format displayed in Table B-8-9 is offered for this purpose and may be modified as needed and sent with each Offeror's cost proposal.

File B records and the CLINs involved fall into four categories:

a. Non-repeating items - CLINs 4001 through 4011

b. Group Conversion Plans

c. Development Sites - all other applicable CLINs for the six (6) development sites

d. Future Sites - all other applicable CLINs for the site installations in Section J, Attachment IX, other than the development sites.

B.7.2.1 Supplemental Instructions

B.7.2.1.1 Non-Repeating Items

The non-repeating items will be grouped as a single "site" to be called General, site number Z00001. A single File B record will be prepared referencing each non-repeating item, whether or not an individual item carries a cost.

B.7.2.1.2 Group Conversion Plans

Create one File B record to be called GCP, site number Z00002 and reference each group conversion plan with the appropriate CLIN in the Tape A file. CLIN 4012 is used for the Final GCP for the initial development site and CLIN 4025 with associated Sub-CLINs is used for future conversion GCPs.

B.7.2.1.3 Development and Future Sites

A separate File B record must be prepared for each development site and each future site. Each record must reference all File A costs to install and convert, where required, that site. Summary File A records may be used where appropriate as long as a backup record is made and submitted detailing the specific elements of which the summary record is composed. This approach is recommended as a time and cost saving device when the same group of detailed CLINs is used to configure multiple sites. For example, if a basic C4 system composed of the same components is to be installed in more than one site, a File A Summary CLIN containing the dollar totals of its components may be created and referenced in the appropriate File B, site records. A list must be prepared, however, which details for audit purposes all of the components comprising the C4 system summary record. Care must be exercised in creating summary records to segregate the major cost categories required in Table B-6. Also, contractor costs and Government costs must comprise separate summary records (CLINs).

B.8 UNEVALUATED PRICING

B.8.1 Discounts

The Offeror may propose quantity and other discounts for systems/items ordered under this contract. However, quantity discounts and discounts that restrict the manner in which the Government must order or configure systems in order to receive the discount will not be evaluated, but may be exercised. To be considered in the cost evaluation, discounts must conform to the following rules:

a. Retroactive discounts will not be evaluated.

b. Discounts will not be evaluated, but may be exercised, if they require the Government to order a specific mix or mixes of specific configurations.

c. Discounted or free rental periods, warranties in excess of 90 days, etc. in the first six months of the contract life will not be evaluated, but may be exercised.

B.8.2 Unbalanced Pricing

All cost proposals will be examined for unbalanced pricing. If the Government determines that a proposal contains unbalanced pricing and can be repaired, the Offeror shall be given an opportunity to make such repairs. The following are some of the characteristics of unbalanced bids and should be avoided:

a. Discounts which have been earned can be lost.

b. Cost per unit increases as number of units used increases.

c. Relationship of work to price is disproportionate.

d. Pricing is based on a resource unit which is hard to control (i.e., total dollar amount of all users).

e. Pricing is based on a mixture of resources.

f. Pricing is "multi-faceted" - prices for seemingly unrelated resources are contingent on one another.

g. Pricing is negatively discounted - prices for individual proposals are above list price, while combinations are heavily discounted.

The foregoing list should not be considered comprehensive. While the Government does not wish to discourage innovative pricing, the Offeror should be cautioned that unbalanced bids may be rejected.

1	2	3				4	5		6	7	8		
CONTRACT LINE ITEM NUMBER	ITEM DESCRIPTION	UNIT PRICES OFFERED				QTY	MONTHS OF USAGE: AFTER CONTRACT AWARD		POWER REQUIRED ELEC. A/C	INSTALLATION	ADP SCHEDULE PRICES		
		PURCHASE	MONTHLY MAINTENANCE	MONTHLY RENTAL	SPECIAL PLANS		FROM	UNTIL			PURCHASE	MONTHLY MAINT.	MONTHLY RENTAL

Table B-1

HARDWARE UNIT PRICE SCHEDULE

(1) CONTRACT LINE ITEM NUMBER	(2) ITEM DESCRIPTION	(3) UNIT PRICES OFFERED					(4) MONTHS OF USAGE AFTER CONTRACT AWARD	
		PURCHASE	MONTHLY MAINT.	MONTHLY RENTAL	SPECIAL PLANS	ONE TIME EXPENSE	FROM	UNTIL

Table B-2

SOFTWARE UNIT PRICE SCHEDULE

(1) CONTRACT LINE ITEM-NUMBER	(2) ITEM DESCRIPTION	(3) PRICE RATED PER					(4) SPECIAL RATES	(5) QTY	(6) MONTHS OF USAGE AFTER CONTRACT AWARD	
		HOUR	DAY	MONTH	YEAR	ONE TIME			FROM	UNTIL

Table B-3

SUPPORT SERVICES PRICE SCHEDULE

(1) CONTRACT LINE ITEM NUMBER		(2)	(3) PRICE RATED PER					(4)	(5)	(6) MONTHS OF USAGE AFTER CONTRACT AWARD	
CLIN	SUB-CLIN	ITEM DESCRIPTION	HOUR	DAY	MONTH	YEAR	ONE TIME	SPECIAL RATES	QTY	FROM	UNTIL

Table B-3a

SUPPORT SERVICES PRICE SCHEDULE (CONVERSION)

(1) CONTRACT LINE ITEM NUMBER		(2)	(3)				(4) MONTHS OF USAGE AFTER CONTRACT AWARD	
			UNIT PRICES OFFERED					
CLIN	SUB-CLIN	ITEM DESCRIPTION	PURCHASE	MONTHLY MAINT.	MONTHLY RENTAL	SPECIAL PLANS	FROM	UNTIL

Table B-3b

TOOLS AND AIDS UNIT PRICE SCHEDULE

(1) CLIN	(2) COURSE NUMBER AND TITLE	(3) LOCATION	(4) UNIT PRICE	(5) ONE-TIME CHARGES	(6) COST FOR ADD'L STUDENTS	(7) MONTH SCHEDULED

Table B-4

TRAINING PRICE TABLE

(1)		(2)	(3)	(4)	(5)	(6)	(7)
CLIN	SUB-CLIN	COURSE NUMBER AND TITLE	LOCATION	UNIT PRICE	ONE-TIME CHARGES	COST FOR ADD'L STUDENTS	MONTH SCHEDULED

Table B-4a

TRAINING PRICE TABLE (CONVERSION)

(1)	(2)	(3)	(4)	(5) MONTHS VALID	
CLIN	MANUAL/PUBLICATION NUMBER AND TITLE	UNIT PRICE	QUANTITY	(a) FROM	(b) UNTIL

Table B-5

MANUALS AND PUBLICATIONS SCHEDULE

(1)		(2)	(3)	(4)	(5) MONTHS VALID	
CLIN	SUB-CLIN	MANUAL/PUBLICATION NUMBER AND TITLE	UNIT PRICE	QUANTITY	(a) FROM	(b) UNTIL

Table B-5a

MANUALS AND PUBLICATIONS SCHEDULE (CONVERSION)

81

		Months After Contract Award						
		1	2	3	4	5	6	7
1	HARDWARE							
2	SOFTWARE							
3	PERSONNEL SUPPORT (SECTION C)							
4	PERSONNEL SUPPORT (SECTION CC)							
5	TRAINING (SECTION C)							
6	CONVERSION TRAINING (SECTION CC)							
7	END-USER TRAINING (SECTION CC)							
8	MANUALS (SECTION C)							
9	MANUALS (SECTION CC)							
10	OTHER							
11	INSTALL							
12	PPM MAINT.							
13	ON-CALL MAINT.							
14	POWER							
15	OTHER							
16	OTHER							
17	SUB-TOTAL							
18	ADJ FACTOR	0.992089	0.984240	0.976454	0.968729	0.961066	0.953463	0.945920
19	TOTAL							

Table B-6

INSTALLATION SUMMARY PRICE TABLE

		Months After Contract Award						
		8	9	10	11	12	13	14
1	HARDWARE							
2	SOFTWARE							
3	PERSONNEL SUPPORT (SECTION C)							
4	PERSONNEL SUPPORT (SECTION CC)							
5	TRAINING (SECTION C)							
6	CONVERSION TRAINING (SECTION CC)							
7	END-USER TRAINING (SECTION CC)							
	MANUALS (SECTION C)							
9	MANUALS (SECTION CC)							
10	OTHER							
11	INSTALL							
12	PPM MAINT.							
13	ON-CALL MAINT.							
14	POWER							
15	OTHER							
16	OTHER							
17	SUB-TOTAL							
18	ADJ FACTOR	0.938436	0.931012	0.923647	0.916340	0.909091	0.901899	0.894764
19	TOTAL							

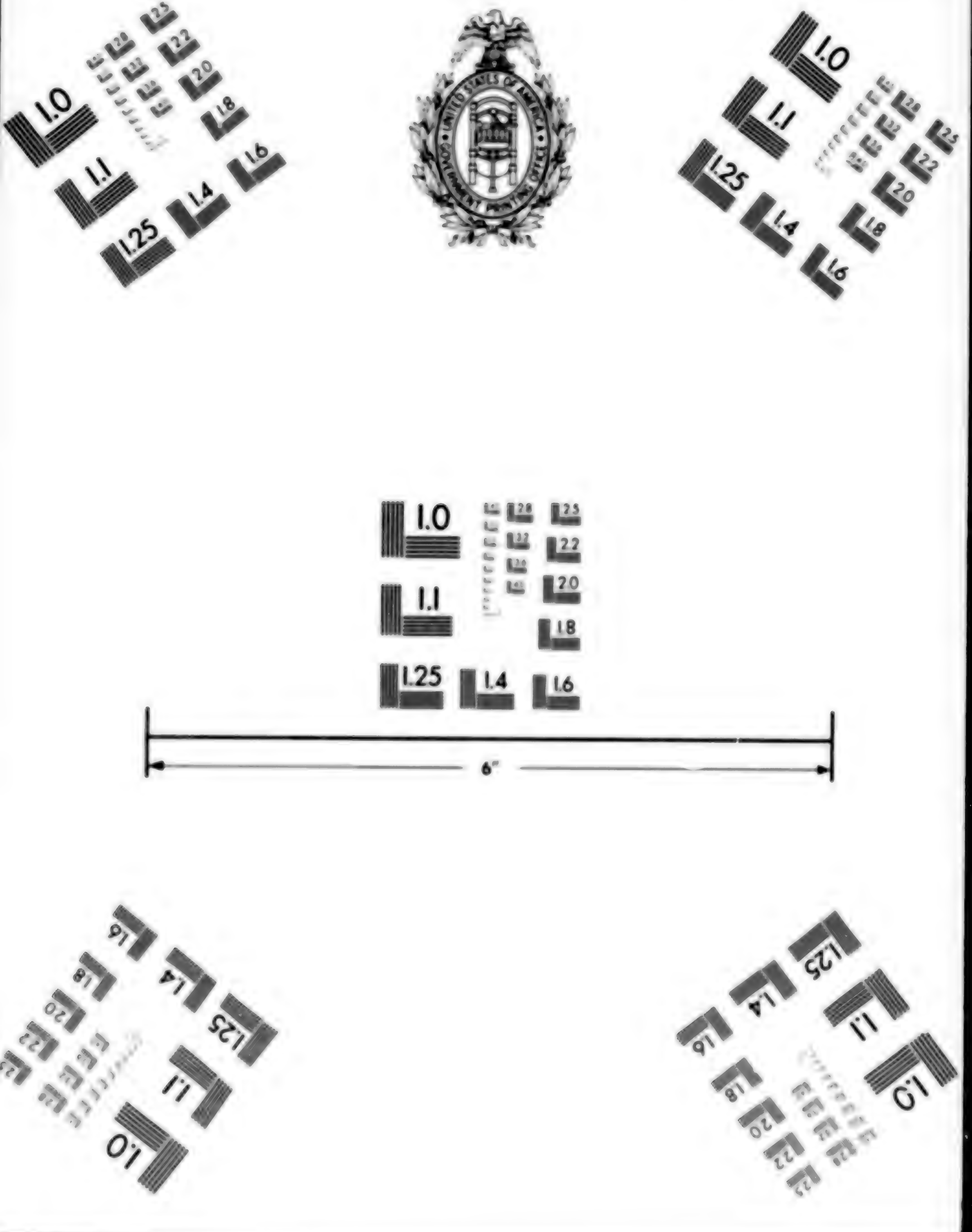
Table B-6 (Con't)

INSTALLATION SUMMARY PRICE TABLE

		Months After Contract Award						
		15	16	17	18	19	20	21
1	HARDWARE							
2	SOFTWARE							
3	PERSONNEL SUPPORT (SECTION C)							
4	PERSONNEL SUPPORT (SECTION CC)							
5	TRAINING (SECTION C)							
6	CONVERSION TRAINING (SECTION CC)							
7	END-USER TRAINING (SECTION CC)							
8	MANUALS (SECTION C)							
9	MANUALS (SECTION CC)							
10	OTHER							
11	INSTALL							
12	PPM MAINT.							
13	ON-CALL MAINT.							
14	POWER							
15	OTHER							
16	OTHER							
17	SUB-TOTAL							
18	ADJ FACTOR	0.887606	0.880663	0.873696	0.866784	0.859927	0.853124	0.846375
19	TOTAL							

Table B-6 (Con't)

INSTALLATION SUMMARY PRICE TABLE


UNITED STATES OF AMERICA
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		Months After Contract Award						
		22	23	24	25	26	27	28
1	HARDWARE							
2	SOFTWARE							
3	PERSONNEL SUPPORT (SECTION C)							
4	PERSONNEL SUPPORT (SECTION CC)							
5	TRAINING (SECTION C)							
6	CONVERSION TRAINING (SECTION CC)							
7	END-USER TRAINING (SECTION CC)							
	MANUALS (SECTION C)							
9	MANUALS (SECTION CC)							
10	OTHER							
11	INSTALL							
12	PPM MAINT.							
13	ON-CALL MAINT.							
14	POWER							
15	OTHER							
16	OTHER							
17	SUB-TOTAL							
18	ADJ FACTOR	0.839679	0.833036	0.826446	0.819908	0.813422	0.806987	0.800603
19	TOTAL							

Table B-6 (Con't)

INSTALLATION SUMMARY PRICE TABLE

		Months After Contract Award						
		29	30	31	32	33	34	35
1	HARDWARE							
2	SOFTWARE							
3	PERSONNEL SUPPORT (SECTION C)							
4	PERSONNEL SUPPORT (SECTION CC)							
5	TRAINING (SECTION C)							
6	CONVERSION TRAINING (SECTION CC)							
7	END-USER TRAINING (SECTION CC)							
8	MANUALS (SECTION C)							
9	MANUALS (SECTION CC)							
10	OTHER							
11	INSTALL							
12	PPM MAINT.							
13	ON-CALL MAINT.							
14	POWER							
15	OTHER							
16	OTHER							
17	SUB-TOTAL							
18	ADJ FACTOR	0.794269	0.787986	0.781752	0.775567	0.769432	0.763345	0.757306
19	TOTAL							

Table B-6 (Con't)

INSTALLATION SUMMARY PRICE TABLE

		Months After Contract Award						
		36	37	38	39	40	41	42
1	HARDWARE							
2	SOFTWARE							
3	PERSONNEL SUPPORT (SECTION C)							
4	PERSONNEL SUPPORT (SECTION CC)							
5	TRAINING (SECTION C)							
6	CONVERSION TRAINING (SECTION CC)							
7	END-USER TRAINING (SECTION CC)							
	MANUALS (SECTION C)							
9	MANUALS (SECTION CC)							
10	OTHER							
11	INSTALL							
12	PPM MAINT.							
13	ON-CALL MAINT.							
14	POWER							
15	OTHER							
16	OTHER							
17	SUB-TOTAL							
18	ADJ FACTOR	0.751315	0.745371	0.739474	0.733624	0.727821	0.722063	0.716351
19	TOTAL							

Table B-6 (Con't)

INSTALLATION SUMMARY PRICE TABLE

		Months After Contract Award						
		43	44	45	46	47	48	49
1	HARDWARE							
2	SOFTWARE							
3	PERSONNEL SUPPORT (SECTION C)							
4	PERSONNEL SUPPORT (SECTION CC)							
5	TRAINING (SECTION C)							
6	CONVERSION TRAINING (SECTION CC)							
7	END-USER TRAINING (SECTION CC)							
8	MANUALS (SECTION C)							
9	MANUALS (SECTION CC)							
0	OTHER							
1	INSTALL							
2	PPM MAINT.							
3	ON-CALL MAINT.							
4	POWER							
5	OTHER							
6	OTHER							
7	SUB-TOTAL							
8	ADJ FACTOR	0.710683	0.705061	0.699483	0.693950	0.688460	0.683013	0.677610
9	TOTAL							

Table B-6 (Con't)

INSTALLATION SUMMARY PRICE TABLE

		Months After Contract Award						
		50	51	52	53	54	55	56
1	HARDWARE							
2	SOFTWARE							
3	PERSONNEL SUPPORT (SECTION C)							
4	PERSONNEL SUPPORT (SECTION CC)							
5	TRAINING (SECTION C)							
6	CONVERSION TRAINING (SECTION CC)							
7	END-USER TRAINING (SECTION CC)							
8	MANUALS (SECTION C)							
9	MANUALS (SECTION CC)							
10	OTHER							
11	INSTALL							
12	PPM MAINT.							
	ON-CALL MAINT.							
14	POWER							
15	OTHER							
16	OTHER							
17	SUB-TOTAL							
18	ADJ FACTOR	0.672249	0.666931	0.661655	0.6564[illegible]	0.651228	0.646076	0.640965
19	TOTAL							

Table B-6 (Con't)

INSTALLATION SUMMARY PRICE TABLE

		Months After Contract Award						
		57	58	59	60	61	62	63
1	HARDWARE							
2	SOFTWARE							
3	PERSONNEL SUPPORT (SECTION C)							
4	PERSONNEL SUPPORT (SECTION CC)							
5	TRAINING (SECTION C)							
6	CONVERSION TRAINING (SECTION CC)							
7	END-USER TRAINING (SECTION CC)							
8	MANUALS (SECTION C)							
9	MANUALS (SECTION CC)							
10	OTHER							
11	INSTALL							
12	PPM MAINT.							
13	ON-CALL MAINT.							
14	POWER							
15	OTHER							
16	OTHER							
17	SUB-TOTAL							
18	ADJ FACTOR	0.635894	0.630863	0.625873	0.620921	0.616009	0.611136	0.606301
19	TOTAL							

Table B-6 (Con't)

INSTALLATION SUMMARY PRICE TABLE

		Months After Contract Award						
		64	65	66	67	68	69	70
1	HARDWARE							
2	SOFTWARE							
3	PERSONNEL SUPPORT (SECTION C)							
4	PERSONNEL SUPPORT (SECTION CC)							
5	TRAINING (SECTION C)							
6	CONVERSION TRAINING (SECTION CC)							
7	END-USER TRAINING (SECTION CC)							
8	MANUALS (SECTION C)							
9	MANUALS (SECTION CC)							
10	OTHER							
11	INSTALL							
12	PPM MAINT.							
13	ON-CALL MAINT.							
14	POWER							
15	OTHER							
16	OTHER							
17	SUB-TOTAL							
18	ADJ FACTOR	0.601505	0.596746	0.592025	0.587342	0.582695	0.578085	0.573512
19	TOTAL							

Table B-6 (Con't)

INSTALLATION SUMMARY PRICE TABLE

		Months After Contract Award						
		71	72	73	74	75	76	77
1	HARDWARE							
2	SOFTWARE							
3	PERSONNEL SUPPORT (SECTION C)							
4	PERSONNEL SUPPORT (SECTION CC)							
5	TRAINING (SECTION C)							
6	CONVERSION TRAINING (SECTION CC)							
7	END-USER TRAINING (SECTION CC)							
8	MANUALS (SECTION C)							
9	MANUALS (SECTION CC)							
10	OTHER							
11	INSTALL							
12	PPM MAINT.							
13	ON-CALL MAINT.							
14	POWER							
15	OTHER							
16	OTHER							
17	SUB-TOTAL							
18	ADJ FACTOR	0.568975	0.564474	0.560008	0.555578	0.551183	0.546822	0.542496
19	TOTAL							

Table B-6 (Con't)

INSTALLATION SUMMARY PRICE TABLE

		Months After Contract Award						
		78	79	80	81	82	83	84
1	HARDWARE							
2	SOFTWARE							
3	PERSONNEL SUPPORT (SECTION C)							
4	PERSONNEL SUPPORT (SECTION CC)							
	TRAINING (SECTION C)							
6	CONVERSION TRAINING (SECTION CC)							
7	END-USER TRAINING (SECTION CC)							
8	MANUALS (SECTION C)							
9	MANUALS (SECTION CC)							
10	OTHER							
11	INSTALL							
12	PPM MAINT.							
13	ON-CALL MAINT.							
14	POWER							
15	OTHER							
16	OTHER							
17	SUB-TOTAL							
18	ADJ FACTOR	0.538205	0.533947	0.529723	0.525532	0.521375	0.517250	0.513158
19	TOTAL							

Table B-6 (Con't)

INSTALLATION SUMMARY PRICE TABLE

		Months After Contract Award						
		85	86	87	88	89	90	91
1	HARDWARE							
2	SOFTWARE							
3	PERSONNEL SUPPORT (SECTION C)							
4	PERSONNEL SUPPORT (SECTION CC)							
5	TRAINING (SECTION C)							
6	CONVERSION TRAINING (SECTION CC)							
7	END-USER TRAINING (SECTION CC)							
8	MANUALS (SECTION C)							
9	MANUALS (SECTION CC)							
10	OTHER							
11	INSTALL							
12	PPM MAINT.							
13	ON-CALL MAINT.							
14	POWER							
15	OTHER							
16	OTHER							
17	SUB-TOTAL							
18	ADJ FACTOR	0.509098	0.505071	0.501075	0.497111	0.493179	0.489277	0.485406
19	TOTAL							

Table B-6 (Con't)

INSTALLATION SUMMARY PRICE TABLE

		Months After Contract Award					
		92	93	94	95	96	TOTAL
1	HARDWARE						
2	SOFTWARE						
3	PERSONNEL SUPPORT (SECTION C)						
4	PERSONNEL SUPPORT (SECTION CC)						
	TRAINING (SECTION C)						
6	CONVERSION TRAINING (SECTION CC)						
7	END-USER TRAINING (SECTION CC)						
8	MANUALS (SECTION C)						
9	MANUALS (SECTION CC)						
10	OTHER						
11	INSTALL						
12	PPM MAINT.						
13	ON-CALL MAINT.						
4	POWER						
15	OTHER						
16	OTHER						
17	SUB-TOTAL						
18	ADJ FACTOR	0.481566	0.477757	0.473977	0.470227	0.466507	
19	TOTAL						

Table B-6 (Con't)

INSTALLATION SUMMARY PRICE TABLE

Tables B-8-1 Through B-8-9

COST QUESTIONNAIRE GENERAL INSTRUCTIONS

Data for the BACES model is submitted in two forms. The bulk data is to be submitted on magnetic media. This data consists of the pricing and other parameters for each separately priced items (referred to as Tape A throughout this documentation), and the configurations of those items at the sites (referred to as Tape B in this documentation). Certain additional data are required. All parties must provide that information as hardcopy in the Cost Questionnaire. This questionnaire covers: 1) basic information about the vendor's offer, such as what plans are being offered; 2) the general discount levels used by the offeror; 3) the terms of the LTOP plan and LWOP plan, if those plans are offered; 4) the Schedule of surcharges for extending the principle period of maintenance (PPM); 5) the per call rates for service outside the PPM; 6) the Schedule(s) of Purchase Option Credits (POC's) that apply for a purchase conversion under the LWOP plan; 7) the Schedules for time-dependent price changes such as escalations or discounts over time; and 8) the Schedules of By-Site Price Adjustments (zones).

The information entered in the cost questionnaire is then referred to in the Tape A and Tape B record. For example, the vendor can define up to 99 schedules of escalations. These are to be numbered from 1 to 99. In Tape A, the vendor then attaches the schedule to be used for charge types within items (e.g., the maintenance for CLIN 0001 uses schedule number 2). For By-Site Pricing Adjustments, the vendor enters the Schedule of those that apply to charge types within individual items in Tape A. Then in Tape B, the vendor states which line item within each schedule applies to a given site for all charge types/items that use that schedule(s).

TABLE B-8-1

OFFEROR:________________

COST QUESTIONNAIRE
STATEMENT OF PRICING TERMS AND CONDITIONS

1. VENDOR NAME:____
2. VENDOR ADDRESS:____
____
3. AUTHORIZED
4. NEGOTIATOR:____
5. PHONE NUMBER:____

VENDOR IS OFFERING:

6. RENTAL PLAN, 1=YES, 2=NO: _______
7. BASIC DISCOUNT IS: _________. _________%
8. PPD OFFERED: _________._________%, _______ DAYS
9. MAINT. INCLUDED IN PRICE, 1=YES, 2=NO: _______
10. PURCHASE PLAN, 1=YES, 2=NO: _______
11. BASIC DISCOUNT IS: _______._______%
12. PPD OFFERED: _______._______%, _______ DAYS
13. PURCHASE WARRANTY PERIOD (MONTHS): _______
14. NON-PURCHASE WARRANTY PERIOD (MONTHS): _______
15. LWOP PLAN, 1=YES, 2=NO: _______
16. LTOP PLAN, 1=YES, 2=NO: _______

WITH REGARD TO MAINTENANCE:

17. BASIC DISCOUNT IS _______._______%
18. PPD OFFERED: _______._______%, _______ DAYS

WITH REGARD TO LTOP:

19. BASIC DISCOUNT IS: _______._______%
20. PPD OFFERED: _______._______%, _______ DAYS
21. PAYOUT PERIOD IS 1=FIXED, 2=VARIABLE, 3=AT CONTRACT END: _____
22. NUMBER OF MONTHS TO PAYOUT: _______

WITH REGARD TO LWOP PLAN:

23. PURCHASE CONVERT MONTH IS: _______
24. THIS MONTH IS: 1=FROM CONTRACT START, 2=FROM INSTALL DATE, 0= VARIABLE: _______
25. POC'S ARE CALCULATED, 0%. SELECT: 1=ON RENT ONLY, 0=RENT + MAINT: _

26. REMARKS:____
____
____

* * *

INSTRUCTIONS: Select yes for each plan offered. For those plans offered, complete all information about that plan requested above.

OFFEROR:________________

COST QUESTIONNAIRE
STATEMENT OF PRICING TERMS AND CONDITIONS
(Cont'd)

Complete all information requested for maintenance. If discounts vary for items within a payment type (e.g. Rental), then enter the most often used (the one to be assumed unless later instructed otherwise for particular items). Likewise, enter the warranty periods that generally apply. Later, these can be varied for individual items.

Special Notes:

1. Question 14:

   The non-purchase warranty question refers to the number of months of maintenance warranty applicable to the Rental plan, LWOP Plan, and LTOP plan. This is the general non-purchase warranty (most common), and can be varied for individual items.

2. Question 21 and 22:

   If a Lease to Ownership Plan is offered, then the question regarding payout periods will appear. The payout period is the number of months that the Government pays the monthly lease, after which the Government takes title. If all sites in a bid have a fixed payout period (e.g., 13 monthly payments after which the Government takes title, then enter 1 for FIXED, and 13 for the number of months. If the number of months to payout is variable, then enter 2 and 0 in the "NUMBER OF MONTHS" field. In the Tape B records, the vendor enters the number of months to payout for each site. If, regardless of when installed, the LTOP Lease is structured to be fully paid at the end of the last month of the contract, then enter 3 to the payout period question.

3. Question 23 through 25:

   If a Lease With Option to Purchase plan (LWOP) is offered, enter the number of months that represent the optimum (vendor recommended) purchase convert date. However, if 3=VARIABLE is to be selected in the next question, then write in "VARIABLE" in this field. In this next field, state whether the number of months is from the contract start (option 1) or is from the install date of each site. Note: the BACES model converts on the first day of the month. For example, if 13 months after contract start is

COST QUESTIONNAIRE
STATEMENT OF PRICING TERMS AND CONDITIONS
(Cont'd)

selected, then the model will assume that 12 months of rental is to be paid and will calculate POC's on that, and convert one day 1 of month 13. If the answer to question 9 is 2=NO, then the only correct answer to question 25 is 1=ON RENT ONLY. If the answer to 9 was 1-YES, then state, in question 25 whether POC's are to be calculated on the non-maintenance portion of the offered rental prices, or on the offered price, which includes maintenance.

NOTE: POC's ARE CALCULATED BASED ON THE OFFERED ACTUAL PRICE.

4. PPD:

Stands for Prompt Payment Discount. This bid may not consider (evaluate) prompt payments discounts. However, if the vendor offers them ahyway, then they are to be described in this questionnaire.

OFFEROR: ________

Table B-8-2

COST QUESTIONNAIRE

OPTIONAL EXTENDED MAINTENANCE SERVICE RATE

UP TO CONSECUTIVE HOURS/DAY	12	16	20	24
MONDAY THROUGH FRIDAY	___.__%	___.__%	___.__%	___.__%
SATURDAY	___.__%	___.__%	___.__%	___.__%
SUNDAY	___.__%	___.__%	___.__%	___.__%
HOLIDAY	___.__%	___.__%	___.__%	___.__%

SELECT, 1 = NO EXTENDED COVERAGE OFFERED, 2 = COVERAGE IS FIXED
3 = VARIES PER SITE ___
(If Fixed)
ENTER THE FIXED PERCENT: ___.__%

REMARKS: ________________________________

INSTRUCTIONS: Enter the percent additional charge to extend the basic period of maintenance (refer to Section J, Attachment I) to the hours and days shown above. This percentage increase will be applied to maintenance prices offered. If, for example, 12 hour coverage, would increase the maintenance price by 10%, then enter 110% above.

The Basic Monthly Maintenance Charges set forth in the Unit Price Schedules cover the Principal Period of Maintenance as set forth in Section J, Attachment I. As reflected in the table below, the charge for any optional Period of Maintenance Service Availability is based on the Basic Monthly Maintenance Charge plus a percentage of the Basic Monthly Maintenance Charge. The percentage depends on the optional period selected. A separate schedule is to be completed for each geographical area as shown in Figure C-9 unless the same (fixed) for all sites.

OFFEROR: ____________

Table B-8-3

COST QUESTIONNAIRE

MAINTENANCE PER-CALL RATES FOR CALLS OUTSIDE THE PRESCRIBED PRINCIPAL PERIOD OF MAINTENANCE

$_____ PER HOUR MONDAY THROUGH FRIDAY $_____ MINIMUM PER CALL
$_____ PER HOUR SATURDAY $_____ MINIMUM PER CALL
$_____ PER HOUR SUNDAY $_____ MINIMUM PER CALL
$_____ PER HOUR HOLIDAY $_____ MINIMUM PER CALL

MAXIMUM CHARGE: _____

PER CALLS, 1 = ARE FIXED, 2 = VARY PER SITE:___

(If Fixed)

OFFERED RATE/HOUR:______
NUMBER OF HOURS: ______

REMARKS: ____
____

INSTRUCTIONS: Enter the rates for per calls as shown above. Enter "NONE" if there is no maximum charge. A separate schedule is to be completed for each geographical area as shown in Figure C-9 unless the same (fixed) for all sites.

OFFEROR:____________

Table B-8-4

COST QUESTIONNAIRE

PURCHASE OPTION CREDITS SCHEDULE(S)

SCHEDULE NO (01-99): __
DESCRIPTION: ____________________

MAXIMUM % OF PURCHASE PRICE CREDITABLE IS: ___.__%
POC MOS ARE, 1=FROM CONTRACT START, 2=FROM EACH SYSTEM INSTALL:_
POC'S ARE, 1=SUPERSEDING, 2=NOT:_

LINE NO.	FROM MONTH	THROUGH MONTH	CREDIT IS
1	___	___	___.__%
2	___	___	___.__%
3	___	___	___.__%
4	___	___	___.__%
5	___	___	___.__%
6	___	___	___.__%
7	___	___	___.__%
8	___	___	___.__%
9	___	___	___.__%
10	___	___	___.__%
11	___	___	___.__%
12	___	___	___.__%
13	___	___	___.__%
14	___	___	___.__%
15	___	___	___.__%
16	___	___	___.__%
17	___	___	___.__%
18	___	___	___.__%
19	___	___	___.__%
20	___	___	___.__%
21	___	___	___.__%
22	___	___	___.__%
23	___	___	___.__%
24	___	___	___.__%
25	___	___	___.__%

(additional lines -up to 52 maximum- may be added)

INSTRUCTIONS: If an LWOP Plan is offered, enter the above schedule of POC credits and associated questions. If multiple Schedules are offered, make copies of this sheet and fill out a sheet for each schedule offered.

OFFEROR:___________

Table B-8-5

COST QUESTIONNAIRE

ESCALATION (+%)/ DISCOUNT (-%) SCHEDULES

SCHEDULE NO (01-99): __
DESCRIPTION: ______________________

ESCALATE USING, 1=COMPOUND, 2=SIMPLE INTEREST: _
THIS AN ESCALATE UNTIL INSTALLED SCHEDULE, 1=NO, 2=YES: _

LINE NO.	FROM MONTH	THROUGH MONTH	ESCALATION IS
1	___	___	___.___%
2	___	___	___.___%
3	___	___	___.___%
4	___	___	___.___%
5	___	___	___.___%
6	___	___	___.___%
7	___	___	___.___%
8	___	___	___.___%
9	___	___	___.___%
10	___	___	___.___%
11	___	___	___.___%
12	___	___	___.___%
13	___	___	___.___%
14	___	___	___.___%
15	___	___	___.___%
16	___	___	___.___%
17	___	___	___.___%
18	___	___	___.___%
19	___	___	___.___%
20	___	___	___.___%
21	___	___	___.___%
22	___	___	___.___%
23	___	___	___.___%
24	___	___	___.___%
25	___	___	___.___%

(additional lines -up to 52 maximum- may be added)

INSTRUCTIONS: If prices escalate (or are reduced) over the contract life then enter the pertinent data into the schedule of Escalations. If prices decline over time then enter negative (-) percents.
If multiple Schedules are offered, make copies of this sheet and fill out sheet for each schedule offered. Number these Schedules sequentially sta g with 01. Later in the Tape A file, the vendor can attach these Schedul o the items/charge types to which the Schedules apply.

OFFEROR: ____________

Table B-8-6

COST QUESTIONNAIRE

BY-SITE PRICE ADJUSTMENTS (ZONE) SCHEDULE(S)

SCHEDULE NO (1-10): __
DESCRIPTION: ______________________

LINE NO.	ZONE	DESCRIPTION	SURCHARGE (%)
1	__	______________________	__.__
2	__	______________________	__.__
3	__	______________________	__.__
4	__	______________________	__.__
5	__	______________________	__.__
6	__	______________________	__.__
7	__	______________________	__.__
8	__	______________________	__.__
9	__	______________________	__.__
10	__	______________________	__.__
11	__	______________________	__.__
12	__	______________________	__.__
13	__	______________________	__.__
14	__	______________________	__.__
15	__	______________________	__.__
16	__	______________________	__.__
17	__	______________________	__.__
18	__	______________________	__.__
19	__	______________________	__.__
20	__	______________________	__.__
21	__	______________________	__.__
22	__	______________________	__.__
23	__	______________________	__.__
24	__	______________________	__.__
25	__	______________________	__.__

(additional lines -up to 100 maximum- may be added)

INSTRUCTIONS: If prices change on a per-site basis, then enter the schedule of price adjustments here. If more than one Schedule is required, then make copies of this page and enter the additional schedules. Number the Schedules starting with 1 and increment by one. Within a schedule, enter 100.00% if the price in Tape A is to be unchanged. Enter 90.00% if the Tap is to be adjusted downward by 10%. Enter 130% if the price in Tape A is to be adjusted 30% upward.
For each cost type (e.g. rental, maintenance, etc.) within each CLIN entered as Tape A records, you will have the opportunity to attach one of these schedules to it. Then in Tape B, you will enter the line item from each of the Schedules entered here that is to be applied to that sit for all items and/or charge types that use that Schedule.

OFFEROR: __________

Table B-8-7

COST QUESTIONNAIRE

EQUIPMENT MODELS AND PRICING DATA

ENTER THE ESCALATION SCHEDULE THAT SHOULD BE ASSUMED BY THE COST MODEL FOR THE PAYMENT TYPES SHOWN BELOW (NOTE: THESE GLOBAL ASSUMPTIONS CAN BE OVERRIDDEN FOR INDIVIDUAL ITEMS):

PAYMENT TYPE	ESCALATION SCHEDULE NUMBER
PURCHASE:	__
MAINTENANCE:	__
RENTAL:	__
LTOP LEASE:	__
ONE TIME CHARGES:	__
RECURRING CHARGES:	__
GOVERNMENT COSTS:	__

IF A FACTOR (AS A PERCENTAGE OF PURCHASE PRICE) WAS USED TO DERIVE ANY OF THE COST TYPES SHOWN BELOW, THEN ENTER THE FACTOR USED EXPRESSED AS A DECIMAL (E.G. .034456).

FACTOR IS CALCULATED ON: 1=NET PURCHASE, 2=RAW (UNDISCOUNTED) PURCHASE: _

RENTAL FACTOR: .______ LTOP FACTOR: .______ MAINTENANCE FACTOR: .______

ONE TIME CHARGE FACTOR: .______ RECURRING CHARGE FACTOR: .______

INSTRUCTIONS: Enter the responses to the questions above. Enter the Escalation Schedule Number (the "SCHEDULE NO" at the top of the Page 5(s)) that most commonly applies to the payment types listed above; or enter "00" if the cost type shown above is not escalated for most or all items in the bid.

OFFEROR:__________

Table B-8-8a

COST QUESTIONNAIRE

EQUIPMENT MODELS AND PRICING DATA

******************** APPLICABLE TO HARDWARE AND SOFTWARE ITEMS**********
(GO TO NEXT PAGE FOR OTHER OR GOVERNMENT COSTS)

SEQUENCE NUMBER: ___
CLIN:___ SUB-CLIN: ___ DESCRIPTION: __________
MODEL NO: ________ MODEL DESCRIPTION: ____________________

ENTER ITEM TYPE, 1=HARDWARE, 2=SOFTWARE, 3=OTHER, 4=GOVERNMENT, 5=P&C: _
(enter a 1 or a 2)

PRICES OFFERED ARE NOT TO EXCEED (NTE)? 1=NO, 2=YES: _

UNIT OF MEAS. (E.G. FT., MO. EA. HR.,ETC.) _

	UNIT PRICE	FACTOR	BASIC DISCOUNT	ZONE SCHED	ESCAL SCHED	PROMPT PAY-MENT DISC.	NET PRICE
PURCHASE:	____.__		__.__%	__	__	__.__%	______.__
MAINTENANCE:	____.__	.____	__.__%	__	__	__.__%	______.__
RENTAL:	____.__	.____	__.__%	__	__	__.__%	______.__
LTOP LEASE:	____.__	.____	__.__%	__	__	__.__%	______.__
ONE TIME COST:	____.__	.____	__.__%	__	__	__.__%	______.__

ENTER POC SCHEDULE (IF LMOP PLAN IS OFFERED): _

BTU/HR: ____ KWH: _.__

PURCHASE PLAN WARRANTY PERIOD IN MONTHS: ___ GENERAL WARRANTY PERIOD: ___
RENTAL DELAY IN MONTHS: ___

INSTRUCTIONS: Enter the responses to the questions above for every hardware and software item offered in the bid. Make copies of this sheet as necessary to account for every item offered-- one item per page. The sequence number is the identifier for each item. Enter a sequential number starting with 001 for each item offered. Enter the factor for each price type where a factor was used. Enter .000000 if no factor was used. Enter a "00" in response to any question about a Schedule No. when none apply.

OFFEROR: __________

Table B-8-8b

COST QUESTIONNAIRE

EQUIPMENT MODELS AND PRICING DATA

************** APPLICABLE TO OTHER OR GOVERNMENT COST ITEMS**************
(GO TO PREVIOUS PAGE FOR HARDWARE OR SOFTWARE COSTS)

SEQUENCE NUMBER: ___
CLIN: _______________ SUB-CLIN: ___ DESCRIPTION: ____________
MODEL NO: __________ MODEL DESCRIPTION: _________________________

ENTER ITEM TYPE, 1=HARDWARE, 2=SOFTWARE, 3=OTHER, 4= GOVERNMENT: _

PRICES OFFERED ARE NOT TO EXCEED (NTE)? 1=NO, 2=YES: _

UNIT OF MEAS. (E.G. FT., MO. EA. HR.,ETC.) ___

	UNIT PRICE	FACTOR	BASIC DISCOUNT	ZONE SCHED	ESCAL SCHED	PROMPT PAYMENT DISC.	NET PRICE
PURCHASE:	_________.__		___.__%	__	__	__.__%	_________.__
MAINTENANCE:	_________.__	.______	___.__%	__	__	__.__%	_________.__
ONE TIME COST:	_________.__	.______	___.__%	__	__	__.__%	_________.__
RECURRING COST:	_________.__	.______	___.__%	__	__	__.__%	_________.__

WITH REGARD TO THE RECURRING CHARGE (SKIP IF NONE):

RECURRING CHARGE RECURS EVERY ___ MONTHS
RECURRING CHARGE ENDS ___ MONTHS AFTER IF STARTS (ENTER LAST MONTH IN CONTRACT IF CHARGE DOES NOT CEASE DURING THE CONTRACT LIFE)

BTU/HR: _____ KWH: __.___

PURCHASE PLAN WARRANTY PERIOD IN MONTHS: ___ GENERAL WARRANTY: ___

INSTRUCTIONS: Enter the responses to the questions above for every hardware and software item offered in the bid. Make copies of this sheet as necessary to account for every item offered. The sequence number is the identifier for each item. Enter a sequential number starting with 001 for each item offered. Enter the factor for each price type where a factor was used. Enter .000000 if no factor was used. Enter a "00" in response to any question about a Schedule No. when none apply.

OFFEROR: ______________

Table B-8-9

COST QUESTIONNAIRE

CONFIGURATIONS DATA

GOVERNMENT PROVIDED SITE ID: ____

INSTALL MONTH: ____ PURCHASE CONVERT MONTH: ____ LTOP LAST MONTH: ____

ENTER THE NUMBER OF COPIES OF THE CONFIGURATION BELOW IN THIS MONTH: ______

ENTER THE ZONE NUMBER TO BE USED FOR THIS CONFIGURATION FROM THE ZONE SCHEDULE(S) OR ENTER 00 IF THERE IS NO SUCH SCHEDULE OR IF NO ZONE SURCHARGE IS TO BE APPLIED.

SCHED 1: __ SCHED 2: __ SCHED 3: __ SCHED 4: __ SCHED 5: __
SCHED 6: __ SCHED 7: __ SCHED 8: __ SCHED 9: __ SCHED 10: __

LINE	CLINS XREF NUMBER	CLINS	MODEL SEQUENCE NUMBER	MODEL NUMBER	QTY	INSTALL MONTH	COST CODE
1.	______	______	______	________	____	______	___
2.	______	______	______	________	____	______	___
3.	______	______	______	________	____	______	___
4.	______	______	______	________	____	______	___
5.	______	______	______	________	____	______	___
6.	______	______	______	________	____	______	___
7.	______	______	______	________	____	______	___
8.	______	______	______	________	____	______	___
9.	______	______	______	________	____	______	___
10.	______	______	______	________	____	______	___
11.	______	______	______	________	____	______	___
12.	______	______	______	________	____	______	___
13.	______	______	______	________	____	______	___
14.	______	______	______	________	____	______	___
15.	______	______	______	________	____	______	___
16.	______	______	______	________	____	______	___
17.	______	______	______	________	____	______	___
18.	______	______	______	________	____	______	___
19.	______	______	______	________	____	______	___
20.	______	______	______	________	____	______	___
21.	______	______	______	________	____	______	___
22.	______	______	______	________	____	______	___
23.	______	______	______	________	____	______	___

OFFEROR: ______________

Table B-8-9

COST QUESTIONNAIRE

CONFIGURATIONS DATA, CONT.

LINE	CLINS XREF NUMBER	CLINS	MODEL SEQUENCE NUMBER	MODEL NUMBER	QTY	INSTALL MONTH	COST CODE
24.							
25.							
26.							
27.							
28.							
29.							
30.							
31.							
32.							
33.							
34.							
35.							
36.							
37.							
38.							
39.							
40.							
41.							
42.							
43.							
44.							
45.							
46.							
47.							
48.							
49.							
50.							
51.							
52.							
53.							
54.							
55.							
56.							
57.							
58.							
59.							
60.							

OFFEROR: ______________

Table B-8-9

COST QUESTIONNAIRE

CONFIGURATIONS DATA, CONT.

LINE	CLINS XREF NUMBER	CLINS	MODEL SEQUENCE NUMBER	MODEL NUMBER	QTY	INSTALL MONTH	COST CODE
61.							
62.							
63.							
64.							
65.							
66.							
67.							
68.							
69.							
70.							
71.							
72.							
73.							
74.							
75.							
76.							
77.							
78.							
79.							
80.							
81.							
82.							
83.							
84.							
85.							
86.							
87.							
88.							
89.							
90.							
91.							
92.							
93.							
94.							
95.							
96.							
97.							

OFFEROR: ____________

Table B-8-9

COST QUESTIONNAIRE

CONFIGURATIONS DATA, CONT.

LINE	CLINS XREF NUMBER	CLINS	MODEL SEQUENCE NUMBER	MODEL NUMBER	QTY	INSTALL MONTH	COST CODE
98.							
99.							
100.							
101.							
102.							
103.							
104.							
105.							
106.							
107.							
108.							
109.							
110.							
111.							
112.							
113.							
114.							
115.							
116.							
117.							
118.							
119.							
120.							
121.							
122.							
123.							
124.							
125.							
126.							
127.							
128.							
129.							
130.							
131.							
132.							
133.							
134.							
135.							

OFFEROR:______________

Table B-8-9

COST QUESTIONNAIRE

CONFIGURATIONS DATA, CONT.

LINE	CLINS XREF NUMBER	CLINS	MODEL SEQUENCE NUMBER	MODEL NUMBER	QTY	INSTALL MONTH	COST CODE
136.							
137.							
138.							
139.							
140.							
141.							
142.							
143.							
144.							
145.							
146.							
147.							
148.							
149.							
150.							

INSTRUCTIONS: Make copies of the table above and complete for each site in the bid. If more than 150 items are in a site, add new sites as continuations. Fill in from 1 to 150 items for each configuration. For each line item, enter the CLINS Cross Reference Number provided in the RFP as well as the actual CLIN. Enter the Sequence number for the item (entered on Tables B-8-A and B-8-[illegible]) and the actual Model code/number. Enter the quantity of that itme in the configuration. Enter the month of installation (normally the month for the site). Enter the Cost code: 1=Priced or N/C, 2=N/A, 3=NSP (Not Separately Priced).

TABLE B-9

BACES TAPE/DISKETTE PREPARATION INSTRUCTIONS

The AMCCOR BACES cost model can accept externally created data in one of three ways:

1. On diskette(s) from another BACES system. These diskettes must be readable by an IBM XT (see 2 below).

2. On MS-DOS or PC-DOS Diskette(s) that are readable by an IBM XT (this requires that the diskettes be formatted on an IBM Personal Computer, after which they may be copied onto, from another compatible brand of PC).

3. On Magnetic Tapes.

If Method Number 1 is used, all vendor data is to be submitted directly via diskette. If methods 2 or 3 are used, the component pricing and the configuration data are to be submitted on diskette or magnetic tape; the remaining information is to be submitted as responses to the cost questionnaire.

Regardless of the method used, the vendor is required to complete the cost questionnaire as hard copy verification of the data submitted on magnetic media.

Below are the procedures for creating the diskette(s) or tapes for the three methods:

Method 1: BACES created data:

To submit a bid created on a BACES system, the Offeror is instructed to perform the BACKUP VENDOR Utility on the RFP ID and VENDOR ID used to prepare this bid, and to submit those diskette(s). The Offeror will state in a letter of transmittal that the diskette(s) were created on a BACES System.

Method 2: MS-DOS or PC-DOS Diskette submission

The offeror is to submit diskette(s) containing two files. One will be named "tapea.txt" and the other will be named "tapeb.txt". These are to be written to diskette(s) using the MS-DOS or PC-DOS BACKUP UTILITY.

BACES TAPE/DISKETTE PREPARATION INSTRUCTIONS
(Cont'd)

The content and format of these files are the same as those required for TAPE A and TAPE B submission described under Method 3. However, the record lengths for tapea.txt and tapeb.txt will be 273 characters and 2750 characters respectively; the record end ASCII CR and LF are not to be included. The offeror will state by letter of transmittal that the diskette(s) contain tapea.txt and tapeb.txt. Important Note: It is required that data submitted on DOS Diskette(s) be readable by an IBM XT. If this method is used, it is the vendor's responsibility to ensure that the tapea.txt and tapeb.txt are readable by an XT. In most cases this will be true if the diskette is first formatted on an IBM PC, XT, or AT.

Method 3: Magnetic Tape Submission:

Two reels are required for submission. The first reel is to contain data that describes the pricing and other factors associated with each CLIN (separately costed item) in the bid. Each item offered will be assigned a sequential reference number starting with 0001. This tape is referred to in this text as "Tape A". The second Tape, referred to as Tape B will contain the configuration data. Tape B records consist of 50 characters of information about the configuration (such as the Install Month and Purchase Convert Month), followed by up to 150 18 character line items that make up the configuration. The tapes submitted shall be clearly labelled as "TAPE A" and "TAPE B."

TAPE SPECIFICATIONS:

1. 9 Track, 1600 bpi PE format (In Conformance to FIPS PUB 25). 7, 8 or 10 1/2 inch reels accepted. Tape width is 1/2 inch. Tape format is ANSI ASCII.

2. Tape A Record Length: 275 Characters
   Tape B Record Length: 2752 Characters

3. Both tapes are unlabelled and unblocked (blocking factor is one (1)).

4. A two character end-of-record mark shall be written at the end of each record. This will be an ASCII CR and ASCII LF (Carriage Return - Octal 15 or Decimal 13 - and Line feed - Octal 12 or Decimal 10). These two characters are included in the record lengths above. Therefore, the length of the data records not

including these characters are 273 and 2750 characters. An end of file mark (WEOF) shall be written at the end of the tape file. This shall be the Hexadecimal 1A (Decimal 26).

5. Records shall not be space or otherwise compressed.

6. Numeric fields must contain only numeric data. If a decimal point is specified, then the decimal must be present and in a position shown for that field.

7. Alphanumeric fields may contain any data character in the 95 character subset in Figure 1 of FIPS 15.

TAPE A DESCRIPTION:

Tape shall contain the pricing and other data requested for each CLIN offered in the bid.

The record layout is shown on the following pages. The Legends are described below:

Position: This refers to the character positions of this field in the record.

Name: This describes the data to be entered into the field.

Type: N=Numeric Only Field; A=Alphanumeric Field.

Length: Length of the field in characters. If the field has a decimal, then the decimal format is shown. For example a (9.2) field contains 9 digits to the left of the decimal, 2 digits to the right of the decimal, plus the decimal point for a total of 12 characters.

Format: Shows what the field should look like N=Numeric Character, A=Alphanumeric Character, . =Decimal Point.

SPECIAL NOTES:

1. Item Type: Enter a 1,2,3, or 4. No other entry is valid. If 1=Hardware or 2=Software are specified, then the recurring charge will be ignored (Column positions 146-155 & any other fields that are in reference to the recurring charge). If 3 or 4 for Other Costs or Government Costs are specified, then Rental and LTOP

Lease will be ignored (enter zeros in those fields). All charges specified for Type 3 and 4 will be evaluated in all plans of acquisition. If an item (even it it is a Hardware or Software item) has a recurring charge that recurs other than monthly (e.g. every 6 months), then that item must be shown as a type 3 charge (or type 4 if it is a Government cost).

2. If "Not Applicable" or "No Cost" or "None" is the appropriate entry in a numeric field, then enter zeroes in that field but retain the decimal point in the required position if the field format shows a decimal point.

3. Availability Maintenance: If the CLINs structure has one or more maintenance only CLINs, the vendor shall enter the monthly maintenance charge for each item offered. BACES will later strip out these amounts and place them into the appropriate Maintenance only CLIN(s).

4. Escalation Schedule No.: This field name refers to the Escalation Schedules entered by the Offeror in the Page 5(s) of the Cost Questionnaire. For each payment type (e.g. Purchase, Maintenance, etc.), enter the Escalation Schedule that applies or enter 00 if the prices do not escalate over the contract life.

5. POC Schedule No.: This field name refers to the POC Schedules entered by the Offeror in the Page 4(s) of the Cost Questionnaire. Enter the Schedule Number that applies to each item or 00 if LWOP is not offered or if the item does not Purchase Convert.

6. By-Site Pricing Adjustment (Zones) Schedule No.: This field name refers to the By-Site Pricing Adjustment Schedules entered by the Offeror in the Page 6(s) of the Cost Questionnaire. Enter the Schedule Number that applies to each item or 00 if no adjustment is to be applied to this item on a per site basis.

TAPE B DESCRIPTION:

Tape B contains the configurations for the item found in Tape A. The first 50 characters of each record consist of "header" information about the configuration. Then each Line Item in the Configuration is described in five fields totalling 18 bytes per line item. These 18 character increments are continued until all line items in the

BACES TAPE/DISKETTE PREPARATION INSTRUCTIONS
(Cont'd)

configuration are entered. At that point an 18 character terminator block of "999999999999999999" is written unless all 150 record positions are written. The remainder of the record to position 2750 is zero-filled. Position 2751 will have the ASCII CR and 2752 will have the ASCII LF.

The record layout is shown on the following pages. The Legends are described below:

Position: This refers to the character positions of this field in the record.

Name: This describes the data to be entered into the field.

Type: N=Numeric Only Field; A=Alphanumeric Field.

Length: Length of the field in characters. If the field has a decimal, then the decimal format is shown. For example, a (9.2) field contains 9 digits to the left of the decimal, 2 digits to the right of the decimal, plus the decimal point for a total of 12 characters.

Format: Shows what the field should look like N=Numeric Character, A=Alphanumeric Character, . =Decimal Point.

TAPE B SPECIAL NOTES:

1. The Site ID is the ID for that Site/Configuration provided by the Government in the RFP.

2. The Install Month is the month that the items in the configuration are to be installed as provided in the RFP for evaluation purposes. Note that individual items within a configuration can have different install months.

3. The Purchase Convert Month is the month that Rental converts to Purchase. Purchase Conversion takes place on Day 1 of the Month entered (i.e., if Month 19 is specified, then rental ends after 18 months and Purchase occurs at the beginning of Month 19).

4. The "LTOP Last Month" is the Month in the Contract that the Government takes title under the LTOP Plan. Note that this is specified as Month End. Therefore, if a 24 month LTOP is proposed and this Configuration goes in in month 13, then the Government would take title at the end of month 36, and 036 should be entered.

BACES TAPE/DISKETTE PREPARATION INSTRUCTIONS
(Cont'd)

5. If multiple identical copies of the configuration that follows this header information are to be provided/evaluated at the given site, then enter the number of copies in record positions 24-27.

6. In Record Positions 28-30, enter the number of line items in "this" configuration.

7. By-Site Pricing Adjustment (Zone) Scheduled: In Tape A, a Zone Schedule was applied to each cost type in each item offered. 10 Schedules are possible. A zero Schedule indicated that no Zone Adjustment was to be made. For the 1 to 10 Schedules that are possible, enter the actual Zone Number within that Schedule (entered in the Page 6(s) of the Cost Questionnaire) that applies to this configuration, or 00 if the Schedule does not exist or if no Zone Adjustment is to be made.

September 12, 1986

TAPE A AND B

SUPPLEMENTAL INSTRUCTIONS

GENERAL:

The sequence number (positions 1-4) is the unique identifier in Tape B used to call out the pricing and other data for the CLIN. This gives the vendor additional flexibility in pricing. For example, assume that a CLIN has more pricing types than the Tape A format will accommodate. Suppose CLIN 0027 has both hardware and software maintenance which cannot be combined into a single number because each uses different escalation schedules. The Tape A record only allows for one maintenance field per record. If CLIN 0027 happens to be entered at record sequence number 27, the vendor should then create that record using the hardware maintenance and should specify that it is an Item Type 1 in position 65 of the record. Then, in record (sequence) number 28, the vendor would enter the same CLIN 0027 (but change the description field to "Software Maintenance"), specify the Item Type as 2 for software, and then enter a price only in the maintenance field that is the unit monthly maintenance for the software. The BACES model will later recognize that records 27 and 28 refer to the same item.

Note: in the example above, the vendor should configure records 27 and 28, wherever a CLIN 0027 appears in a site.

As another example, multiple records for the same CLIN may be required due to price differentials caused by such things as volume discounts (if those are permitted). If the price changes are considered by the Government to be a legal form of offer, then the vendor should create multiple records that reflect these different prices, and then configure in the correct Tape A record(s) in Tape B that reflect the price(s) to be evaluated in each configuration.

It is important to understand that any number of records can be created that allow the vendor to show any and all variances in pricing or other factors for a CLIN that cannot be described in a single record. Each must have a unique record number, and those numbers must be sequential in the file, and start at 1 and increment by 1. The vendor is cautioned however, that the prices offered must constitute a legal form of offer, as determined by the Contracting Officer.

TAPE A AND B

SUPPLEMENTAL INSTRUCTIONS
(Cont'd)

PRICES:

All pricing in Tape A shall be based on unit pricing and reflect the price that is net of all discounts. However, these can be varied using the By-Site Pricing Adjustments as entered in Page 6(s) of the Cost Questionnaire (any such variations must constitute a legal form of offer). The GSA price should be the unit price in the GSA Schedule, net of any discounts offered in that schedule. If the offeror does not have a GSA Schedule, then zeros should be entered in these fields. This is also required for any items that are offered that are not on the offeror's GSA Schedule.

DISCOUNTS OR PRICE CHANGES PER SITE:

These types of discounts or pricing changes do not require multiple records as described in GENERAL above. Instead use the By-Site Price Adjustments entered in Page 6(s) of the Cost Questionnaire. For example, if the purchase price varies per site, then enter all the variations as a Schedule on Page 6. If the price for a site is to be discounted 20%, then enter a line item in the Schedule on Page 6 with a value of 80.00%, which means that the price is 80% of the offered price. If the price for a site(s) is 120% of the Tape A purchase price, then enter a line item in the Page 6 Schedule of 120.00%. If the price for some sites is simply the price in Tape A, then enter 100.00% as a line item in the Schedule to accommodate these prices. You would then enter the Schedule number for these purchase variations in positions 205-206 of the Tape A record for all CLINs for which this schedule is to be applied. Then in the site record for each site in Tape B, enter the Line Item Number in this Schedule that applies to each site, or enter 00 if the schedule is not applicable to the site (i.e., the purchase price in Tape A will be used). The same methodology applies to all other charge types.

RECURRING CHARGES THAT DISCONTINUE PRIOR TO THE END OF THE CONTRACT:

There are several methods for handling these types of charges. One option is to define them as "Recurring" charges in Tape A. Provision is made in the Tape A record format to terminate these charges at whatever month is selected. Alternatively, the BACES model will accept negative quantities. For example, if there are ten

TAPE A AND B

SUPPLEMENTAL INSTRUCTIONS
(Cont'd)

maintenance items that commence in month 4 and discontinue at the end of the 37th month, then in the Tape B record, enter that item in month 4 with a plus quantity of 10, and then enter it again with 37 in the month field with a negative quantity of 10. Important note: for such debit and credit transactions, ensure that only the charge type to be taken out is effected. If, in the above example, a one time charge is applied to this item as well, then that charge would need to be placed in another Tape A record so that the model will not attempt to take out a negative one time charge in month 37.

POWER & COOLING:

The BACES model will automatically supply power & cooling CLINs where needed for evaluation. The Offeror is instructed not to include the power & cooling CLIN(s) in either Tape A or Tape B.

PRICE ADJUSTMENTS:

The BACES model can accept negative pricing. These can be entered as a CLIN. The description field should clearly label these as price "adjustments." It is the vendor's responsibility to clearly explain the nature of any such price adjustments in the Remark Section of the Questionnaire.

EVALUATION VERSUS TERMS OF OFFER:

The Offeror should be aware of the differences between cost evaluation and the terms of the offer. For example, if the vendor offers a single firm fixed price for an item and that is based on some quantity, then the model simply wants to know that price. It is the responsibility of the Offeror to state clearly in writing (in the Cost Questionnaire Remarks Section) all such special terms and conditions. If other prices would prevail if a lesser quantity were bought, then that is a term of the offer which must be clearly stated, but is of no significance to the cost evaluation process. It may be of significance as to the acceptability, legality or reasonableness of the offer. As another example, if maintenance for a site has a discount applied based on the volume of that maintenance, then the model only wants to know the By-Site Pricing Adjustment that is to be used. Once again, the basis for the price is of no importance to the cost evaluation itself, but it is incumbent on the vendor to explain

TAPE A AND B

SUPPLEMENTAL INSTRUCTIONS
(Cont'd)

in writing the nature and reason for the price, if the vendor wants that price to be subject to certain conditions.

DIFFERENT PRICES UNDER DIFFERENT PLANS:

If the vendor offers multiple LTOP or other plans or if the vendor chooses to offer different prices for different plans of acquisition (assuming it is a legal form of offer), and such changes are not accommodated by the Tape A, Tape B and Cost Questionnaire formats, then the vendor can submit multiple Cost Questionnaires, multiple Tape A files, and/or multiple Tape B files to accommodate the offer. If multiple files are submitted, they are to be separated onto different tapes or diskettes and clearly labelled. Further, the vendor is to provide a detailed explanation describing the multiple copies and clearly explain and label the function of each. For example, if LWOP Rental prices are different than straight rental prices (and if this is permitted), then the vendor would need to submit one Tape A file that covered Rental, Purchase, and LTOP and a second that covered LWOP.

MULTIPLE IDENTICAL SITES

The vendor should note that the Tape B format also contains a sequence (record) number. If more than 150 items are required in a site or if the vendor needs to define more sites than the Government has defined, it is permissible to do so. In the latter case, the vendor simply has multiple records (sequence numbers) with the same Government ID. These record numbers work under the same rules as for Tape A Sequence numbers.

SINGLE PLAN OF ACQUISITION FOR AN ITEM:

If an item is rental only, or LTOP lease only, or Purchase only under all offered plans of acquisition, then this is handled by entering only that form of payment in the Tape A record, and entering zero for the other two. The BACES model will automatically recognize that this payment applies to all forms of acquisition, since it is the only one. Conversely, an item that is an Item Type 1 or 2 that has only one of the three prices will be treated this way for all plans of acquisition. Also, be aware that a price in the "One Time" or "Recurring" fields in Tape A will be evaluated under all offered plans. For example, if an item is purchased only under all plans, the vendor can cause this to happen by entering it in the one time field.

TAPE A

TAPE A RECORD FORMAT - SUBMIT ONE RECORD FOR EACH SEPARATELY PRICED CLIN OFFERED IN THIS PROPOSAL. MULTIPLE TAPE A RECORDS CAN BE SUBMITTED FOR A CLIN TO PERMIT THE VENDOR TO ESTABLISH MORE PRICES FOR AN ITEM THAN ARE ALLOWED IN A SINGLE TAPE OR RECORD, IF THIS IS NEEDED. HOWEVER, A UNIQUE SEQUENCE NUMBER MUST BE USED FOR EACH TAPE A RECORD EVEN IF THEY REFERENCE THE SAME CLIN.

Positions	Name	Type	Length	Format
1-4	Record number. Enter the number of this record in this file (e.g., if this is the 3rd record, then enter 0003). This is the unique sequential number for this item and will be used in TAPE B to identify this item in the configurations.	N	4	NNNN
5-8	CLIN: Contract Line Item Number	N	4	NNNN
9-12	SLIN; Subclin.	A	4	AAAA
13-14	Filler	A	2	AA
15-34	CLIN Description	A	20	AAAAAAAAAAAAAAAAAAAA
35-44	Model Code or Number that Identifies this item in the vendor literature/technical proposal	A	10	AAAAAAAAAA
45-64	Model Description	A	20	AAAAAAAAAAAAAAAAAAAA
65-65	Item Type (1=Equip, 2=Software, 3=Other Cost, 4=Govt Cost). Note: All charges shown for Item Types 3, and 4 will be evaluated in all forms of acquisition.	N	1	N

TAPE A
(Cont'd)

66-77	Unit Purchase Price	N	12 (9.2)	NNNNNNNNN.NN
78-82	Purch. Prompt Payment Disc. (%)	N	5 (2.2)	NN.NN

TAPE A
(Continued)

TAPE A RECORD FORMAT - SUBMIT ONE RECORD FOR EACH SEPARATELY PRICED CLIN OFFERED IN THIS PROPOSAL.

Positions	Name	Type	Length	Format
83-91	Unit Monthly Maintenance Price	N	9 (6.2)	NNNNNN.NN
92-96	Maint.Prompt Payment Disc. (%)	N	5 (2.2)	NN.NN
97-106	Unit Monthly Rental Price (Enter 0000000.00 in this field if the cost type in position 65 is a 3, 4,' or 5).	N	10 (7.2)	NNNNNNN.NN
107-111	Rent Prompt Payment Disc. (%)	N	5 (2.2)	NN.NN
112-123	Unit Monthly LTOP Lease Price (Enter 000000000.00 if Item Type is 3,4 or 5).	N	12 (9.2)	NNNNNNNNN.NN
124-128	LTOP Prompt Payment Disc. (%)	N	5 (2.2)	NN.NN
129-140	Unit One Time Price **Note: this charge will be evaluated in all plans of acquisition.**	N	12 (9.2)	NNNNNNNNN.NN
141-145	One Time Prompt Payment Disc(%)	N	5 (2.2)	NN.NN
146-155	Recurring Charge Price (If Item Type is 1 or 2, in position 65, then enter 0000000.00 in this field). **Note: this charge will be evaluated in all plans of acquisition.**	N	10 (7.2)	NNNNNNN.NN
156-160	Recurring Charge Prompt Payment Discount (%)	N	5 (2.2)	NN.NN (or 00.00)

TAPE A
(Continued)

TAPE A RECORD FORMAT - SUBMIT ONE RECORD FOR EACH SEPARATELY PRICED CLIN OFFERED IN THIS PROPOSAL.

Positions	Name	Type	Length	Format
161-172	LWOP Unit Purchase Price	N	12 (9.2)	NNNNNNNNN.NN
173-174	POC Schedule No. (page 4(s) of the Cost Questionaire) that applies to this item or 00 if LWOP is not offered or this item does not convert from rental to purchase.	N	2	NN

*** The following are the Escalation/Discount Schedule Numbers from the page 5(s) of the Cost Questionnaire that apply to the payment types indicated. Enter 00 if the payment type for the item does not escalate or discount over time or is N/A. ***

Positions	Name	Type	Length	Format
175-176	Rent Escalation Schedule No. for this item.	N	2	NN
177-178	Purch. Escalation Schedule No. for this item.	N	2	NN
179-180	Maint. Escalation Schedule No. for this item.	N	2	NN
181-182	LTOP Escalation Schedule No. for this item.	N	2	NN
183-184	One Time Charge Escalation Schedule No. for this item.	N	2	NN
185-186	Recurring Charge Escalation Schedule No. for this item.	N	2	NN

TAPE A
(Continued)

TAPE A RECORD FORMAT - SUBMIT ONE RECORD FOR EACH SEPARATELY PRICED CLIN OFFERED IN THIS PROPOSAL.

Positions	Name	Type	Length	Format
187-189	Warranty Period in Months for maintenance under the purchase plan. If the item type (Position 65 of this record) is 1 or 2, this warranty will be applied to the Monthly maintenance field (Positions 83-91). If the item type is 3, 4, or 5 it will apply to the maintenance field and the recurring charge field.	N	3	NNN
190-192	Enter the warranty period in months that applies under the other forms of acquisition or 000 if none. The rules for item types apply the same as for positions 187-189.	N	3	NNN
193-197	Enter the Number of BTU's/Hour this item generates (Enter 00000 if Power & Cooling data is not evaluated or not required or if this item has none).	N	5	NNNNN
198-204	Enter the Kilowatt Hours this item uses (Enter 00.0000 if Power & Cooling data not evaluated or not required, or this item has none).	N	7 (2.4)	NN.NNNN

TAPE A
(Continued)

TAPE A RECORD FORMAT - SUBMIT ONE RECORD FOR EACH SEPARATELY PRICED CLIN OFFERED IN THIS PROPOSAL.

Positions	Name	Type	Length	Format
205-206	Enter the By- site Pricing Adjustment Schedule- Zones- (Page 6(s) of the Cost Questionnaire) that applies to Purchase. Enter 00 if no By-Site Adjustment is Applicable.	N	2	NN
207-208	Enter the By- site Pricing Adjustment Schedule- Zones- (Page 6(s) of the Cost Questionnaire) that applies to Maintenance. Enter 00 if no By-Site Adjustment is Applicable.	N	2	NN
209-210	Enter the By- site Pricing Adjustment Schedule- Zones- (Page 6(s) of the Cost Questionnaire) that applies to Rental. Enter 00 if no By-Site Adjustment is Applicable.	N	2	NN
211-212	Enter the By- site Pricing Adjustment Schedule- Zones- (Page 6(s) of the Cost Questionnaire) that applies to LTOP Lease. Enter 00 if no By-Site Adjustment is Applicable.	N	2	NN
213-214	Enter the By- site Pricing Adjustment Schedule- Zones- (Page 6(s) of the Cost Questionnaire) that applies to the One Time Charge. Enter 00 if no By-Site Adjustment is Applicable.	N	2	NN

TAPE A
(Continued)

TAPE A RECORD FORMAT - SUBMIT ONE RECORD FOR EACH SEPARATELY PRICED CLIN OFFERED IN THIS PROPOSAL.

Positions	Name	Type	Length	Format
215-216	Enter the By- site Pricing Adjustment Schedule- Zones- (Page 6(s) of the Cost Questionnaire) that applies to the Recurring Charge. Enter 00 if no By-Site Adjustment is Applicable. Also, enter 00 if the item type is 1 or 2.	N	2	NN
217-219	Enter the Page Number of the Offeror's GSA Schedule where this item can be found (or 000 if none)	N	3	NNN
220-231	GSA Unit Purchase Price (or 0000000.00 if none)	N	12 (9.2)	NNNNNNNNN.NN
232-240	GSA Unit Monthly Maintenance (or 0000000.00 if none)	N	9 (6.2)	NNNNNN.NN
241-251	GSA Unit Monthly Rental (or 00000000.00 if none)	N	11 (8.2)	NNNNNNNN.NN
252-254	If this item has a Special Recurring charge enter its frequency in Months (e.g. enter 001 for monthly, 003 for quarterly, 012 for yearly, etc.). Enter 000 if N/A.	N	3	NNN
255-257	If this item has a Special Recurring charge, then enter the number of months after it is installed that the charge ends (e.g. if the charge is in effect for 24 months then enter	N	3	NNN

BEST COPY AVAILABLE

TAPE A
(Continued)

TAPE A RECORD FORMAT - SUBMIT ONE RECORD FOR EACH SEPARATELY PRICED CLIN OFFERED IN THIS PROPOSAL.

Positions	Name	Type	Length	Format
255-257 (Cont)	024); or enter the contract life (e.g. 096) if the charge does not cease during the contract life. **Note:** If this charge also has warranties, then be aware that they will not effect the cutoff date. For example, if this item goes in in month 4 and ceases after 24 months (month 27 is the last payment month) and has a 3 month warranty, which means the charge will start in month 7, the charge will still terminate in month 27. If you wanted the charge to stop 24 months after it commences in this example, then you should enter 027 in this field.			
258-260	If rental is "free" for a number of months after this item is installed, enter the number of free months, or enter 000 if charges commence as of the date of installation.	N	3	NNN
261-261	Enter a 1 if prices on this are offered as Not to Exceed (NTE), otherwise enter a 2.	N	1	N
262-264	Unit of Measure (e.g. EA., HR., MO., FT. etc.)	A	3	AAA
265-273	Reserved (enter 000000000)	N	9	NNNNNNNNN
274	ASCII CR (Octal 16 or Decimal 13)			
275	ASCII LF (Octal 13 or Decimal 10)			

TAPE B

TAPE B RECORD FORMAT - SUBMIT ONE RECORD FOR EACH CONFIGURATION.

Positions	Name	Type	Length	Format
1-4	Sequential Record Number for this record (start with 0001 for the first record and increment by one thereafter.	N	4	NNNN
5-14	Government Provided Site ID	A	10	AAAAAAAAAA
15-17	Site Install Month. This is the earliest month that items go into this site, and is generally the month of the principle installation. When items are attached to this site below, the months in which they are installed can be different from this month.	N	3	NNN
18-20	Purchase Convert Month if LWOP Plan Offered. Enter 000 if LWOP not offered.	N	3	NNN
21-23	Last Payment Month (month that, at the end of which, Government takes title) under the LTOP plan. Enter 000 if plan not offered.	N	3	NNN
24-27	If multiple copies of the configuration that follows are offered/required, then enter the multiplier. If N/A then enter 0001.	N	4	NNNN
28-30	Enter the number of items in the configuration that follows (number of 18 char. Line Items).	N	3	NNN

TAPE B

TAPE B RECORD FORMAT - SUBMIT ONE RECORD FOR EACH CONFIGURATION.

ENTER THE LINE ITEM NUMBER FROM THE BY-SITE PRICING ADJUSTMENT (ZONE) SCHEDULE(S) THAT REPRESENT THE PRICING ADJUSTMENT APPLICABLE TO ANY ITEMS USING THESE SCHEDULES IN THIS CONFIGURATION (ENTRY OF 00 BELOW MEANS THAT NO ADJUSTMENTS WILL BE MADE TO ANY ITEMS/CHARGE TYPES THAT USE THAT SCHEDULE). If there are less than 10 Schedules, then enter 00 in the fields below where the schedule does not exist.

Positions	Name	Type	Length	Format
31-32	Enter the Line Item Number that represents the price adjustment for Schedule 1 items/charge types.	N	2	NN
33-44	Enter Line Item Number for Schedule 2	N	2	NN
35-36	Enter Line Item Number for Schedule 3	N	2	NN
37-38	Enter Line Item Number for Schedule 4	N	2	NN
39-40	Enter Line Item Number for Schedule 5	N	2	NN
41-42	Enter Line Item Number for Schedule 6	N	2	NN
43-44	Enter Line Item Number for Schedule 7	N	2	NN
45-46	Enter Line Item Number for Schedule 8	N	2	NN
47-48	Enter Line Item Number for Schedule 9	N	2	NN
49-50	Enter Line Item Number for Schedule 10	N	2	NN

TAPE B

STARTING BELOW ENTER THE 18 CHARACTER SUB RECORDS WITH THE INFORMATION SHOWN FOR POSITIONS 51-68 REPETITIVELY UNTIL ALL ITEMS IN THE CONFIGURATION HAVE BEEN ENTERED. ENTER 18 9's AS A RECORD TERMINATOR AND ZERO FILL THE REST OF THE RECORD.

51	Cost Code (1=Item is priced or No Charge; 2=Not Applicable; 3=Not Separately Priced).	N	1	N
52-55	Enter the CLINS sequence (record) number from Tape A that is to be included in this site.	N	4	NNNN
56-59	Enter 0000.	N	4	NNNN
60-65	Enter the Quantity for this Item.	N	6	NNNNNN
66-68	Enter the Month that this Item is installed. Enter the site install month unless different.	N	3	NNN

•
•
•
•

Continue until all items are entered

TAPE B

TAPE B RECORD FORMAT - SUBMIT ONE RECORD FOR EACH CONFIGURATION.

Positions	Name	Type	Length	Format
n to n+18	Enter 999999999999999999	N	18	999999999999999999
n+19 to 2750	Enter 000....0	N	Zero	Fill
2751-2751	ASCII CR			
2752-2752	ASCII LF			

(SEE NEXT PAGE FOR ANOTHER EXAMPLE OF LAYOUT)

TAPE B

TAPE B RECORD FORMAT - SUBMIT ONE RECORD FOR EACH CONFIGURATION.
EXAMPLE

```
---------------------------------------------------------------------------------------
Header Info.   Positions 1-50                                                 1-50

Line Item 1:          |  -  |   |----|  |----|    |------|  |---|             51-68
                         (1-1)      (2-5)   (6-9)    (10-15)  (16-18)
                      Cost Code     CLINS*  Model ID        QTY      Month

Line Item 2:          |  -  |   |----|  |----|    |------|  |---|             69-86
                         (1-1)      (2-5)   (6-9)    (10-15)  (16-18)
                      Cost Code     CLINS*  Model ID        QTY      Month

Line Item 3:          |  -  |   |----|  |----|    |------|  |---|             87-104
                         (1-1)      (2-5)   (6-9)    (10-15)  (16-18)
                      Cost Code     CLINS*  Model ID        QTY      Month

Line Item 4:          |  -  |   |----|  |----|    |------|  |---|             105-122
                         (1-1)      (2-5)   (6-9)    (10-15)  (16-18)
                      Cost Code     CLINS*  Model ID        QTY      Month

Line Item 5:          |  -  |   |----|  |----|    |------|  |---|             123-140
                         (1-1)      (2-5)   (6-9)    (10-15)  (16-18)
                      Cost Code     CLINS*  Model ID        QTY      Month

Line Item 6:          |  -  |   |----|  |----|    |------|  |---|             141-158
                         (1-1)      (2-5)   (6-9)    (10-15)  (16-18)
                      Cost Code     CLINS*  Model ID        QTY      Month

    .
    .
    .
    .
Line Item n:          |  -  |   |----|  |----|    |------|  |---|
                         (1-1)      (2-5)   (6-9)    (10-15)  (16-18)
                      Cost Code     CLINS   Model ID        QTY      Month

Terminator:            |  9  |   |9999|  |9999|  |999999|    |999|
                         (1-1)      (2-5)   (6-9)    (10-15)  (16-18)
                      Cost Code     CLINS   Model ID        QTY      Month

    .
    .
    .
Remainder of record to 2750:  000.......................0
ASCII CR                                                                   2751-2751
ASCII LF                                                                   2752-2752
---------------------------------------------------------------------------------------
```

* Sequence Number in Tape A that identifies this item.

SECTION C

DESCRIPTION/SPECIFICATION/WORK STATEMENT

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SECTION C

DESCRIPTION/SPECIFICATION/WORK STATEMENT

INTRODUCTION

The mission of the Department of State (DOS) is to execute foreign policy as formulated by the President. In addition, DOS has overall direction, coordination and supervision of interdepartmental activities of the United States Government overseas. To accomplish this mission, DOS maintains embassies and consulates (Posts) in every country with which the United States has diplomatic relations. These Posts require administrative support to assist DOS personnel in performing activities including the processing of visas, providing assistance to citizens, developing country contact lists, property accounting and financial management. Within the United States, DOS's domestic offices also require administrative support for more than five-thousand personnel.

The DOS relies heavily on Automatic Data Processing Equipment (ADPE) to provide administrative support in the form of computational and word processing capabilities. In 1979, DOS competitively awarded two contracts to Wang Laboratories for equipment and related services to provide those capabilities.

In addition to the DOS requirements, other foreign affairs cluster agencies will obtain ADPE through the DOS contract:

- o Foreign Agriculture Service (FAS), Department of Agriculture
- o Agency for International Development (AID)

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- United States Information Agency (USIA)
- Foreign Commerce Service (FCS), Department of Commerce
- Peace Corps

The following agencies obtain workstations (including Personal Computers) and other peripheral/devices for foreign locations through the DOS contract:

- Social Security Administration
- Department of Treasury
- Travel Tourism Agency, Department of Commerce
- Library of Congress
- Federal Aviation Administration
- Immigration and Naturalization Service
- Drug Enforcement Agency
- USNATO, Department of Defense
- US Special Trade Representative
- Veterans Administration
- Voice of America

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The purpose of this Request for Proposal (RFP) is to acquire a family of Automatic Data Processing Equipment (ADPE) ranging from microcomputers to super-minicomputers that will be installed at locations both within the United States and at foreign locations throughout the world. These systems will be used for traditional data processing (e.g., data entry, updating, reporting, and query), word processing, electronic mail, electronic filing, and the transfer of documents and data between workstations that will be locally and remotely located. The DOS performs classified work and, therefore, some of the systems require National Security Agency (NSA) TEMPEST certification.

C.1 OVERVIEW

The Department of State and the other participating agencies require flexibility in the ordering of ADPE, software and services, in both quantitities and delivery scheduling, after the requirements materialize. Since the precise quantities and the exact locations for delivery cannot be predetermined above a specified dollar amount (presented in Subsection I.16) for the contract period, an indefinite-delivery, indefinite-quantity type contract has been selected.

In view of the indefiniteness of requirements and the wide variability of workload by locations worldwide, the requirements in this Section C are for a family of equipment expressed in ranges, and a variety of software that is compatible across the product line.

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All requirements in this Request for Proposal (RFP) are mandatory unless otherwise stated as Mandatory Optional requirements. The Mandatory optional requirements are indexed by the RFP Paragraphs as follows:

RFP Reference	Mandatory Option
C.3.1.1	Foreign Languages (Enter, Display, and Print)
C.3.9, C.5.2.3	Local Area Networks
C.5.2.4.2	External Interfaces
C.3.12	Cables
C.4.3.1.5	Other High-Level Languages
C.4.6.3	W1 (PC) Software
C.5.2.4.2	External Interfaces
C.11, C.13.1	On-Site Pre-Installation Survey
C.14.4	Per-Call Maintenance
C.14.12.7	Foreign TEMPEST Maintenance
C.15.1	User Training

Throughout this RFP, the terms "contract life" and "systems life" are used. These terms are defined in Attachment I, Glossary, of Section J and are stated here as follows:

a. Contract Life (Term of Contract) - Five (5) years after award of contract for the hardware, software and support services plus three (3) option years for support services.

b. System Life - Hardware and software for five (5) years after award of contract plus three (3) option years for maintenance, training, software licensing, contractor personnel support, spare parts, documentation, and conversion - a total of eight (8) years.

C.1.1 Current Processing Environment

The DOS comprises many discrete organizational units (domestic bureaus and offices, and overseas posts). These organizations interface with other agencies, such as FAS, AID, USIA, and FCS. This paragraph describes the Automated Data Processing (ADP) environment of these organizations in terms of computer systems and applications. The environment that the current equipment operates in is described in Subsection C.11 of this RFP.

Currently, administrative processing support is provided by Wang equipment and by IBM equipment. The purpose of this RFP is to replace and/or supplement the Wang equipment only; the IBM equipment is not a part of the RFP. Attachment IX, Installation Schedule (for evaluation purposes only), presents all locations throughout the world where the current equipment is installed. Attachment XIII describes the current hardware, and Attachment XVI describes the current software.

The Wang equipment consists of personal computers (PCs), and the Wang models OIS, WP, Alliance and VS. Utilization of the equipment varies by location from standalone PCs to multi-VSs, and some models are used for classified information processing; thus, these models are TEMPEST certified. Access to the DOS mainframe equipment (IBM 308X and IBM 4341 computers) is provided through the DOS communications network.

There are five categories of users of the ADP equipment. These users, with the letter indicator for the category (this indicator is further used to describe the training requirements in Subsection C.15), are described as follows:

a. Management - Responsible for the planning and direction of agency, bureau, office, or post activities at the policy level (M).

b. Professional - Responsible for the day-to-day operations of agency, bureau, office or post activities; usually with a specific subject-area specialty (e.g., economics, procurement, project managers, legislative affairs, political affairs, and security). Foreign Service Nationals (FSNs) are also employed in this category (P).

c. ADP Specialist - Hands-on involvement in some aspect of ADP, including hardware, software, communications, security, operations, etc. Foreign Service Nationals (FSNs) are also employed in this category (S).

d. Administrative/Clerical - Responsible for general office administration and support, including typing, word processing, filing, bookkeeping, etc. Foreign Service Nationals (FSNs) are also employed in this category (C).

e. Other - Primarily includes security and service staff (O).

Each of the foregoing categories of users have varying degrees of hands-on contact with the systems, according to their assigned responsibilities and functions.

C.1.2 Objectives

The DOS objectives for the new information processing systems are numerous. These objectives include:

a. To obtain an integrated and compatible equipment family that will have the capability to provide information processing support through 1991 and beyond

b. To obtain National Security Agency (NSA) TEMPEST certified equipment that is part of the family of equipment

c. To obtain high-quality, rapid response-time maintenance support at locations throughout the world

d. To obtain system effectiveness of 95%

e. To obtain security and integrity controls to preclude the intentional or unintentional compromise of data

f. To obtain quality information-systems training for personnel stationed throughout the world

g. To obtain prompt deliveries of hardware and software at worldwide locations

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h. To be able to operate standardized applications at all locations

i. To obtain resource monitoring and accountability tools to allow efficient and effective management of system resources

j. To obtain a contractual vehicle from which an indefinite quantity of the hardware, software and support may be procured.

Summaries of the hardware, software, operational and support requirements are contained in the following four subsections.

C.1.3 Non-TEMPEST Hardware

The specific hardware requirements are presented in Subsection C.3. These requirements are summarized in the following paragraphs. The DOS requires an integrated and compatible family of equipment that will process the workload projections presented in Subsection C.2 at the performance levels specified in paragraph C.5.3. The family of non-TEMPEST hardware consists of several components:

a. Six categories of Central Processing Units (CPUs): C1-C6
b. Six categories of Direct Access Storage Devices (DASDs): S1-S6
c. Seven categories of Printers: P1-P7
d. Three categories of Magnetic Tape Drives: T1-T3
e. Two categories of Graphics Plotters: G1-G2
f. Three categories of Video Display Terminals (VDT)/Workstations: W1-W3
g. Four categories of Remote Communications Controllers: RC1-RC4
h. Three categories of Local Area Networks (Mandatory Option): LAN1-LAN3
i. One category of Imaging Systems: I1

Offerors may propose more or less than the "n" categories of equipment; however, all equipment offered must comply with the requirements for the "n" categories and operate within the specified ranges.

C.1.3.1 TEMPEST Hardware

The Department of State has a requirement for TEMPEST certified hardware within the family of equipment but recognizes there may not be a one-to-one match between non-TEMPEST and TEMPEST hardware. The requirements for TEMPEST certified hardware are as follows:

a. Four categories of Central Processing Units (CPUs): C3T-C6T
b. Six categories of Direct Storage Devices (DASDs): S1T-S6T
c. Four categories of Printers: P1T, P4T, P5T, P7T
d. Three categories of VDTs: W1T, W2T, W3T
e. Two categories of Magnetic Tape Drives: T2T, T3T
f. One category of Graphic Plotters: G1T
g. Three categories of Remote Communications Controllers: RC2T, RC3T, RC4T
h. One category of Local Area Network (Mandatory Option): LAN2T
i. One category of Imaging: I1T

Refer to Section C.3.11 for TEMPEST certification requirements and Figure C-1 for TEMPEST certification schedules.

NOTE: Throughout the RFP, any reference made to the C1-C6 CPUs and all peripherals include both the non-TEMPEST and, where appropriate, the TEMPEST hardware requirements.

C.1.4 Software

Specific functional software requirements are presented in Subsection C.4, Software. These requirements are summarized in the following paragraphs.

The DOS requires a comprehensive set of "system" software which is categorized into five broad classes for purposes of this RFP:

a. Operating System
b. File Management
c. Applications Development Support
d. End-User Support
e. Utilities.

These five categories of software are required for both non-TEMPEST and TEMPEST systems.

An outline is provided in Subsection C.4 that indexes the software requirements by paragraph. The software requirements for the W1 VDT/Workstation (Personal Computer) are specified in Paragraph C.4.6.

C.1.4.1 Operating System

The operating system as specified in Paragraph C.4.1 must furnish overall integrated control of all proposed equipment and software. The operating system for the W1 must be MS-DOS level 2.1 or higher; for the C1-C6 processors, the operating system must be functionally and syntactically (commands) equal for all processors. It must also support the following system management functions:

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a. System Backup and Restore
b. Program Interrupt and Restart
c. System Shutdown and Recovery
d. Logical Device Assignment
e. Operating System Security
f. Job/Task Processing Priorities
g. System Scheduling
h. Resource Allocation
i. Error Control
j. Resource Monitoring
k. System Resource Accountability
l. User Command Facility
m. System Procedure Language.

C.1.4.2 File Management

A file management system is specified in Paragraph C.4.2 and it must support sequential, indexed sequential and direct (random) access methods. A further requirement of the file management software is to provide file development and maintenance, and library management.

C.1.4.3 Applications Development Support

Applications development support is specified in Paragraph C.4.3 and it prescribes four classes of software:

a. Programmer's Procedural Language Processors (COBOL, BASIC, FORTRAN, Assembler)

b. Linkage Editor

c. Program Development Tools (Text Editor, Screen Formatter, Data Entry/Edit, Menu Building and Revision, Debug/Test Aids, and Application Development Aid)

d. Program Library Facility

C.1.4.4 End-User Support

End-User support is specified in Paragraph C.4.4, and software is required in 12 areas:

a. Query Language
b. Report Generator
c. Graphics
d. Database Management System
e. Word Processing
f. Electronic Mail
g. Electronic Spreadsheet
h. Electronic Calendaring/Scheduling
i. Electronic Filing
j. Image Processing.
k. Statistics
l. Data/Document/File Transfer

C.1.4.5 Utilities

Utilities are specified in Paragraph C.4.5 for four areas:

a. Sort/Merge
b. Data Conversion
c. Tape Volume
d. DAS Volume.

C.1.5 Operational Requirements

Specific operational requirements are provided in Subsection C.5, Operational Requirements. These requirements are outlined in the following paragraphs.

C.1.5.1 Security

System security must be provided for access and file protection. The definition and language requirements of these requirements are based on the DEPARTMENT OF DEFENSE TRUSTED COMPUTER SYSTEM EVALUATION CRITERIA, and the security requirements are specified in paragraph C.5.1.

The successful Contractor for this RFP must have, or obtain soon after award, a TOP SECRET Facility Clearance.

C.1.5.2 Communications Requirements

The detailed communications requirements are specified in paragraph C.5.2. Communications must be provided for inter- and intra-processors and personal computers, and access must be provided to the Department of State Communications Network. A Local Area Network capability (Paragraph C.5.2.3) and External Interfaces (Paragraph C.5.2.4.2) are Mandatory Optional features.

C.1.5.3 System Performance

The detailed system performance specifications are specified in paragraph C.5.3. Concurrency of operations is expressed in terms of a range of users per Central Processing Unit (CPU) type. Response times are expressed for both interactive requirements and pass-through communication transactions. The Fiber Optic System performance requirements are also specified.

C.1.6 Support

Support is required for technical assistance, maintenance (hardware and software), training, conversion, and for manuals and publications. This support is to be provided throughout the systems life.

C.1.6.1 Technical Assistance

The technical assistance requirement is specified in Subsection C.13. Technical assistance is required for the initial installations and throughout the system life. This support is to be provided by programmers/system analysts, and these personnel shall assist in the successful implementation and usage of the hardware and software. For the foreign TEMPEST equipment, TOP SECRET cleared technician assistance is required.

C.1.6.2 Maintenance

The hardware maintenance requirement is specified in Subsection C.14, and software maintenance is specified in Subsection C.17. Worldwide hardware maintenance (preventive and remedial) and software maintenance are required throughout the system life. Response times for arrival of contractor maintenance personnel vary by geographical areas.

C.1.6.3 Training

Training requirements are specified in Subsection C.15. Training is required at installation time and throughout the systems life.

Training is to be provided for system operation and for all of the software proposed. The Offeror may propose consolidated geographical training locations. Equipment maintenance training is required for the foreign TEMPEST equipment.

C.1.6.4 Manuals and Publications

Manuals and publications, specified in Subsection C.16, are to be provided with the delivery of equipment and software. In addition the manuals and publications are to be kept up-to-date throughout the system life, and these updates are to be delivered to the Systems Managers at each site (refer to Section J, Attachment IX for sites).

C.2 WORKLOAD

The contract that results from this RFP will be for the equipment ranges contained in Figure C-1 and further specified in the paragraphs of Subsection C.3. Although the DOS will order their specific requirements through the Indefinite Quantity Contract, for workload and evaluation purposes the equipment has been configured by CPU category (C1-C6) plus the VDT/Workstation W1; Figure C-2 shows these configurations by the contract years.

For evaluation purposes system upgrades will be accomplished as follows: Systems procured in year 1 will be upgraded in years 3 and 5 according to the configurations for years 3 and 5. Systems procured in year 2 will be upgraded in year 4 according to the configuration for year 4 (same as year 5). Systems procured in year 3 will be upgraded in year 5 according to the configuration for year 5. Systems procured in years 4 and 5 will not be upgraded. This applies to non-TEMPEST and TEMPEST systems.

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NONTEMPEST EQUIPMENT

Central Processing Units (CPU) - See Note #1

C1 - Computer with 1-8 concurrent users, minimum 700 Kilobytes upgradable to at least 1 Megabyte Memory

C2 - Computer with 4-16 concurrent users, minimum 1 Megabyte upgradable to at least 2 Megabyte Memory

C3 - Computer with 12-32 concurrent users, minimum 2 Megabyte upgradable to at least 4 Megabyte Memory

C4 - Computer with 24-64 concurrent users, minimum 4 Megabyte upgradable to at least 6 Megabyte Memory

C5 - Computer with 48-128 concurrent users, minimum 6 Megabyte upgradable to at least 8 Megabyte Memory

C6 - Computer with 96-192 concurrent users, minimum 8 Megabyte upgradable to at least 16 Megabyte Memory

Direct Access Storage Device (DASD) - See Note #1

S1 - Minimum 264 Kilobytes to at least 1 Megabyte
S2 - Minimum 1 Megabyte to at least 10 Megabytes
S3 - Minimum 10 Megabytes to at least 150 Megabytes
S4 - Minimum 150 Megabytes to at least 500 Megabytes
S5 - Minimum 500 Megabytes to at least 1 Gigabyte
S6 - Minimum 1 Gigabyte to at least 5 Gigabytes

Printers - See Note #2

P1 - High - Speed Printer, 400 lpm to 600 lpm
P2 - High - Speed Printer, 800 lpm to 1200 lpm
P3 - High - Speed Printer, at least 1200 lpm
P4 - Letter - Quality Printer, 30 cps to 60 cps
P5 - Printer, WI Stand-alone, dot matrix, at least 60 cps
P6 - Dual - Mode Printer, Draft at least 180 cps; Near Letter Quality at least 40 cps
P7 - Laser Printer, minimum 240 dots per inch and minimum of 15 pages per minute

Figure C-1

RANGE OF EQUIPMENT REQUIREMENTS

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Tape Drives

T1 - 9 Track, 1600 bits per inch (bpi), minimum 50 inches per second (ips), 10.5 inch reels, one-half inch wide tape

T2 - 9 Track, 1600/6250 bits per inch (bpi), minimum 75 inches per second (ips), 10.5 inch reels, one-half inch wide tape

T3 - 1/4 Inch Cartridge, at least 4800 bits per inch (bpi), minimum 25 inches per second (ips)

Graphic(s) Plotters

G1 - For W1, 4 to 6 colors
G2 - For C1-C6, 6 to 8 colors

Video Display Terminals (VDT) Workstations - See Note #1

W1 - Intelligent, full function, with local storage; minimum 256 to maximum of at least 640 Kilobytes memory
W2 - Cannot operate in stand-alone mode
W3 - Same as W2, plus has pixel addressable graphics capability

Remote Communications Controller - See Note #1

RC1 Supports minimum of 1 to at least 4 remote ports
RC2 Supports minimum of 4 to at least 8 remote ports
RC3 Supports minimum of 8 to at least 12 remote ports
RC4 Supports minimum of 12 to at least 24 remote ports

Note #1: When a range is shown, capability provided must be within the range indicated. The lower figure is the minimum acceptable. Capability must be upgradable to the higher figure. The ability to provide capability greater than the higher figure is also acceptable.

Note #2: When a range is shown, the rated printer speed (lpm, cps) must be at least equal to or greater than the lower figure of the range indicated. Capability greater than the higher end of the range is also acceptable.

Figure C-1 (Cont'd)

RANGE OF EQUIPMENT REQUIREMENTS

Local Area Networks (Mandatory Option) - See Note #1

LAN1 Supports up to at least 100 devices concurrently
LAN2 Supports up to at least 300 devices concurrently
LAN3 Supports up to 1000 devices concurrently

Imaging Systems - See Note #1

I1 Provides 2,500 to at least 5,000, 8 1/2" by 11", stored images that are scanned at a minimum of 200 dots-per-inch and compressed at least 10:1

TEMPEST EQUIPMENT

Central Processing Units (CPU) - See Note #1

C3T - Computer with 12-32 concurrent users, minimum 2 Megabytes upgradable to at least 4 Megabytes. Certified in Quarter 3, Contract year 1.
C4T - Computer with 24-64 concurrent users, minimum 4 Megabytes upgradable to at least 6 Megabytes. Certified in Quarter 1, Contract year 1.
C5T - Computer with 48-128 concurrent users, minimum 6 Megabytes upgradable to at least 8 Megabytes. Certified in Quarter 3, Contract year 1.
C6T - Computer with 96-192 concurrent users, minimum 8 Megabytes upgradable to at least 16 Megabytes. Certified in Quarter 1, Contract year 2.

Direct Access Storage Devices (DASD) - See Notes #1 and #3

S1T - Minimum 264 Kilobytes to at least 1 Megabyte. Certified in Quarter 1, Contract year 1.
S2T - Minimum 1 Megabyte to at least 10 Megabytes. Certified in Quarter 1, Contract year 1.
S3T - Minimum 10 Megabytes to at least 150 Megabytes. Certified in Quarter 3, Contract year 1.
S4T - Minimum 150 Megabytes to at least 500 Megabytes. Certified in Quarter 1, Contract year 1.
S5T - Minimum 500 Megabytes to at least 1 Gigabyte. Certified in Quarter 3, Contract year 1.
S6T - Minimum 1 Gigabyte to at least 5 Gigabytes. Certified in Quarter 1, Contract year 2.

Note #3 - All S1T - S4T DASD provided for TEMPEST systems must be with removable packs.

Figure C-1 (Cont'd)

RANGE OF EQUIPMENT REQUIREMENTS

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Printers - See Note #2

P1T - High-Speed Printer, 400 lpm to 600 lpm. Certified in Quarter 3, Contract year 1

P4T - Letter-Quality Printer, 30 cps to 60 cps. Certified in Quarter 1, Contract year 1

P5T - Printer, W1 Standalone, dot-matrix at least 60 cps. Certified in Quarter 1, Contract year 1

P7T - Laser printer, minimum 240 dots per inch and minimum of 15 pages per minute. Certified in Quarter 1, Contract year 2

Tape Drives

T2T - 9 Track, 1600/6250 bits per inch (bpi), minimum 75 inches per second (ips), 10.5 inch reels, one-half inch wide tape. Certified in Quarter 3, Contract year 1.

T3T - 1/4 Inch Cartridge, at least 4800 bits per inch (bpi), minimum 25 inches per second (ips). Certified in Quarter 1, Contract year 2.

Graphics Plotter

G1T - For W1, 4 to 6 colors. Certified in Quarter 1, Contract year 3.

Video Display Terminals (VDT) Workstations - See Note #1

W1T - Intelligent, full function, with local storage; minimum 256 Kilobytes to at least 640 Kilobytes memory. Certified in Quarter 1, Contract year 1.

W2T - Cannot operate in standalone mode. Certified in Quarter 1, Contract year 1.

W3T - Same as W2T, plus has pixel addressable graphics capability. Certified in Quarter 1, Contract year 2.

Figure C-1 (Cont'd)

RANGE OF EQUIPMENT REQUIREMENTS

Remote Communications Controller - See Note #1

RC2T - Supports minimum of 4 to at least 8 remote ports. Certified in Quarter 3, Contract year 1.
RC3T - Supports minimum of 8 to at least 12 remote ports. Certified in Quarter 1, Contract year 1.
RC4T - Supports minimum of 12 to at least 24 remote ports. Certified in Quarter 1, Contract year 2.

Local Area Network (Mandatory Optional) - See Note #1

LAN2T - Supports 100 up to at least 300 devices concurrently. Certified in Quarter 1, Contract year 2.

Imaging Systems - See Note #1

I1T - Provides 2,500 to at least 5,000, 8 1/2" by 11", stored images that are scanned at a minimum of 200 dots-per-inch and compressed at least 10:1. Certified in Quarter 1, Contract year 2.

Figure C-1 (Cont'd)

RANGE OF EQUIPMENT REQUIREMENTS

CONFIGURATION/CONTRACT YEAR	1	2 & 3	4 & 5
S1 DASD	1		
S2 DASD	1	1	1
S3 DASD	0	0	1
P5 PRINTER	1	1	1
P6 PRINTER*	1	1	1
T3 TAPE*	1	1	1
G1 PLOTTER*	1	1	1

* These devices will be ordered as part of the W1 Configuration only for every 4th W1 ordered (for evaluation purposes only).

Figure C-2

NON-TEMPEST EQUIPMENT

CONFIGURATION TABLE

W1 Configuration by Year (As a Stand-Alone Device)

CONFIGURATION/CONTRACT YEAR	1	2 & 3	4 & 5
W1 TERMINAL*	2	3	4
W2 TERMINAL	2	2	2
W3 TERMINAL			1
S3 DASD	1	1	
S4 DASD			1
T1 TAPE	1	1	1
T3 TAPE (some locations in lieu of T1)**	1	1	1
P1 PRINTER	1	1	1
P4 PRINTER	1	1	1
G2 PLOTTER			1

* The W1 as part of this configuration, for evaluation purposes only, will have only 10 megabytes of DAS configured with it. Not the total W1 configuration.

** The T3 will be ordered in lieu of the T1 as part of the C1 configuration only for every 4th C1 ordered (for evaluation purposes only).

Figure C-2 (Cont'd)

NON-TEMPEST EQUIPMENT
CONFIGURATION TABLE

C1 CONFIGURATION BY YEAR
700 K - 1 MB MAIN MEMORY: 1-8 CONCURRENT USERS

CONFIGURATION/CONTRACT YEAR	1	2 & 3	4 & 5
W1 TERMINAL*	2	4	7
W2 TERMINAL	2	3	6
W3 TERMINAL		1	1
S3 DASD	1		
S4 DASD		1	1
T1 TAPE	1	1	1
T3 TAPE (in some locations in lieu of T1)**	1	1	1
P2 PRINTER	1	1	1
P4 PRINTER	1	2	2
LAN 1 NETWORK			1
G2 PLOTTER		1	1
RC1 CONTROLLER			1

* The W1 as part of this configuration, for evaluation purposes only, will have only 10 megabytes of DAS configured with it. Not the total W1 configuration.

** The T3 will be ordered in lieu of the T1 as part of the C2 configuration only for every 4th C2 ordered (for evaluation purposes only).

Figure C-2 (Cont'd)

NON-TEMPEST
CONFIGURATION TABLE

C2 CONFIGURATION BY YEAR
1 MB - 2 MB MAIN MEMORY: 4-16 CONCURRENT USERS

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CONFIGURATION/CONTRACT YEAR	1	2 & 3	4 & 5
W1 TERMINAL*	8	10	14
W2 TERMINAL	7	9	10
W3 TERMINAL	1	1	2
S3 DASD	1		
S4 DASD		1	
S5 DASD			1
T1 TAPE	1	1	
T2 TAPE			1
T3 TAPE (in some locations in lieu of T1)**	1		
P2 PRINTER	1	1	1
P3 PRINTER		1	1
P4 PRINTER	2	2	2
P6 PRINTER			1
LAN 1 NETWORK	1	1	1
G2 PLOTTER	1	1	1
RC2 CONTROLLER	1	1	1

* The W1 as part of this configuration, for evaluation purposes only, will have only 10 megabytes of DAS configured with it. Not the total W1 configuration.

** The T3 will be ordered in lieu of the T1 as part of the C3 configuration only for every 4th C3 ordered (for evaluation purposes only).

Figure C-2 (Cont'd)

NON-TEMPEST EQUIPMENT
CONFIGURATION TABLE

C3 CONFIGURATION BY YEAR
2-4 MB MAIN MEMORY: 12-32 CONCURRENT USERS

CONFIGURATION/CONTRACT YEAR	1	2 & 3	4 & 5
W1 TERMINAL*	12	22	28
W2 TERMINAL	10	17	22
W3 TERMINAL	2	3	4
S4 DASD	1		
S5 DASD		1	1
T1 TAPE	1	1	
T2 TAPE			1
P2 PRINTER	1	1	1
P3 PRINTER	1	1	2
P4 PRINTER	3	3	3
P6 PRINTER	1	2	2
LAN 1 NETWORK	1	1	1
G2 PLOTTER	1	1	2
RC2 CONTROLLER	1	1	1

* The W1 as part of this configuration, for evaluation purposes only, will have only 10 megabytes of DAS configured with it. Not the total W1 configuration.

Figure C-2 (Cont'd)

NON-TEMPEST EQUIPMENT
CONFIGURATION TABLE

C4 CONFIGURATION BY YEAR
4-6 MB MAIN MEMORY: 24-64 CONCURRENT USERS

CONFIGURATION/CONTRACT YEAR	1	2 & 3	4 & 5
W1 TERMINAL*	22	30	45
W2 TERMINAL	20	29	49
W3 TERMINAL	3	5	10
S5 DASD	1		
S6 DASD		1	1
T2 TAPE	1	1	1
P2 PRINTER	1	1	1
P3 PRINTER	1	1	2
P4 PRINTER	6	6	6
P7 PRINTER		1	1
LAN 2 NETWORK	1	1	1
I1 IMAGING	1		
G2 PLOTTER	1	1	1
RC2 CONTROLLER	1	1	
RC3 CONTROLLER			1

* The W1 as part of this configuration, for evaluation purposes only, will have only 10 megabytes of DAS configured with it. Not the total W1 configuration.

Figure C-2 (Cont'd)

NON-TEMPEST EQUIPMENT
CONFIGURATION TABLE

C5 CONFIGURATION BY YEAR
6-8 MB MAIN MEMORY: 48-128 CONCURRENT USERS

CONFIGURATION/CONTRACT YEAR	1	2 & 3	4 & 5
W1 TERMINAL*	46	60	70
W2 TERMINAL	45	60	69
W3 TERMINAL	5	9	14
S6 DASD	1	1	2
T2 TAPE	1	1	1
P3 PRINTER	2	2	3
P4 PRINTER	8	12	16
P6 PRINTER	2	3	5
P7 PRINTER		1	1
LAN 2 NETWORK	1	1	1
LAN 3 NETWORK			1
I1 IMAGING	1	1	1
G2 PLOTTER	1	2	2
RC3 CONTROLLER	1		
RC4 CONTROLLER		1	1

* The W1 as part of this configuration, for evaluation purposes only, will have only 10 megabytes of DAS configured with it. Not the total W1 configuration.

Figure C-2 (Cont'd)

NON-TEMPEST EQUIPMENT
CONFIGURATION TABLE

C6 CONFIGURATION BY YEAR
8-16 MB MAIN MEMORY: 96-192 CONCURRENT USERS

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CONFIGURATION/CONTRACT YEAR	1	2 & 3	4 & 5
S1T DASD	1	0	0
S2T DASD	1	1	1
S3T DASD	0	0	1
P4T Printer	1	1	1
P5T Printer	1	1	1
G1T Plotter	0	0	1

Figure C-2 (Cont'd)

TEMPEST EQUIPMENT
CONFIGURATION TABLE

W1T TEMPEST CONFIGURATION BY YEAR

CONFIGURATION/CONTRACT YEAR	1	2 & 3	4 & 5
W1T Terminal*	12	16	16
W2T Terminal	4	5	5
S3T DASD	2	2	2
P4T Printer	2	4	5
P5T Printer	2	2	3
G1T Plotter	0	1	1
RC2T Controller	1	1	1

* W1T as part of this configuration, for evaluation purposes only, shall be configured with S2T DASD.

Figure C-2 (Cont'd)

TEMPEST EQUIPMENT

CONFIGURATION TABLE

C3T TEMPEST CONFIGURATION BY YEAR

CONFIGURATION/CONTRACT YEAR	1	2 & 3	4 & 5
W1T*	10	17	17
W2T Terminal	12	22	22
S4T DASD	2	2	2
P4T Printer	6	7	8
P5T Printer	2	3	4
G1T Plotter	0	1	1
T3T Tape	0	2	2
RC3T Controller	1	1	1

* W1T as part of this configuration, for evaluation purposes only, shall be configured with S2T DASD.

Figure C-2 (Cont'd)

TEMPEST EQUIPMENT
CONFIGURATION TABLE

C4T TEMPEST CONFIGURATION BY YEAR

CONFIGURATION/CONTRACT YEAR	1	2 & 3	4 & 5
W1T Terminal*	22	30	45
W2T Terminal	20	29	49
W3T Terminal	0	5	10
S5T DASD	2	2	2
P1T Printer	1	1	1
P4T Printer	6	6	8
P5T Printer	2	3	4
P7T Printer	0	1	2
G1T Plotter	0	1	1
T2T Tape	1	1	1
RC3T Controller	1	1	1
I1T Imaging	0	2	3
LAN2T	0	1	1

* W1T as part of this configuration, for evaluation purposes only, shall be configured with S2T DASD.

Figure C-2 (Cont'd)

TEMPEST EQUIPMENT
CONFIGURATION TABLE

C5T TEMPEST CONFIGURATION BY YEAR

CONFIGURATION/CONTRACT YEAR*	1	2 & 3	4 & 5
W1T Terminal**	0	60	70
W2T Terminal	0	60	60
W3T Terminal	0	7	10
S6T DASD	0	2	2
P1T Printer	0	1	2
P4T Printer	0	12	16
P5T Printer	0	13	14
P7T Printer	0	1	1
G1T Plotter	0	2	2
T2T Tape	0	1	1
RC4T Controller	0	1	1
I1T Imaging	0	1	2
LAN2T	0	1	1

* The C6T Configuration will be required in Quarter 1, year 2.

** WIT is part of this configuration, for evaluation purposes only, shall be configured with S2T DASD.

Figure C-2 (Cont'd)

TEMPEST EQUIPMENT
CONFIGURATION TABLE

C6T TEMPEST CONFIGURATION BY YEAR

Offerors are cautioned that the CPU category/configurations (system configurations), quantities of systems and the resultant number of units of equipment contained in Figure C-2 are for evaluation purposes only and do not necessarily represent the actual number of systems and units of equipment to be purchased under the contract resulting from this RFP. Moreover, systems configured differently from those shown in Figure C-2 may be purchased under such a contract. In addition, the software requirements for each system, as shown in Figure C-6, are for evaluation purposes only and do not obligate the Government to purchase all of the software indicated for each system purchased.

Attachment III contains the estimated workload profiles for the contract life. Offerors must propose hardware and software capable of processing the estimated workload at the performance level specified in paragraph C.5.3.

C.3 HARDWARE

Offerors must propose equipment that operates within the range(s) shown in Figure C-1. Offerors may propose the minimum range of the equipment, however, it must be upgradable to at least the maximum range stated.

Offerors may propose more or less than the "n" categories of equipment; however, all equipment offered must comply with the requirements for the "n" categories and operate within the ranges specified. All peripherals proposed must be plug-compatible across the Offeror's proposed C1-C6 CPU product line.

The estimated quantities for the contract years are provided in Attachment IX, Installation Schedule. The letter T indicates the TEMPEST (National Security Agency certified) requirements. The DOS will specify the configurations and the quantity on individual orders to the successful Offeror throughout the contract life. In addition, the DOS wants to remain abreast of the state-of-the-art, and therefore offerors are referred to Section H, Special Contract Requirements, for clauses relating to new technology. Expandability and flexibility are essential to the Department of State ADPE system; therefore, the successful Offeror must accomodate these features at a minimum cost for new technology advances that have equal or better functionality than the system proposed. The proposed architecture must be modular, therefore, to the extent that more advanced devices can be added/substituted without a major integration effort.

C.3.1 General Requirements

The following general requirements apply to this Solicitation for all categories of hardware:

a. Augmentation to the initial configuration can be accomplished through methods ranging from the attachment of additional hardware devices to replacement of one hardware device(s) with a compatible device of greater capacity or performance characteristics.

b. Any augmentation of equipment proposed to satisfy growth requirements during the systems life shall be transparent to the user and shall not require any modifications to applications software.

c. The system shall provide the capability to recover either automatically or manually, or a combination of both, from hardware failures. This shall include error detection, error location (isolation), recovery procedures and automated (hardware and software supported) error recording/logging.

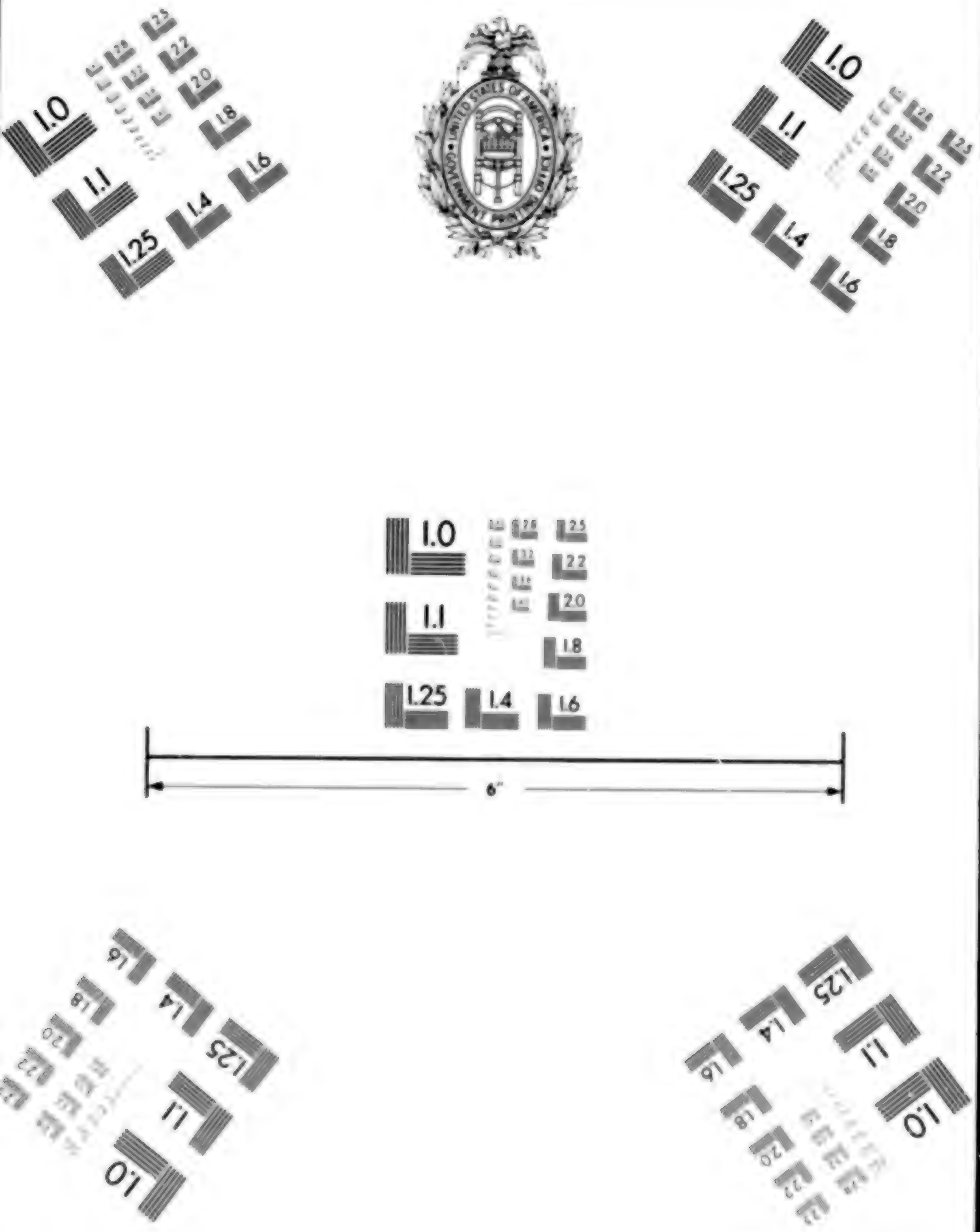
d. All equipment shall be in current production at the time of the Performance Validation (Live Test Demonstration). The TEMPEST equipment, as stated in Paragraph C.3.11, has a different, special requirement. Prototype or development equipment shall not be acceptable nor shall discontinued equipment be acceptable.

e. The proposed equipment shall function with the power requirements specified in Paragraph C.11.1, and provide for protection against power failures or fluctuations outside these ranges. The equipment that is individually connected to a power source must not sustain damage in the event of a power failure or fluctuation.

C.3.1.1 Foreign Language (Enter, Display, and Print) (Mandatory Option)

Figure C-4 lists several foreign languages which under operator control must be entered (via word-processing software and the VDT/Workstations keyboards), displayed (on the VDT/Workstations' screens) and printed (on the P4, P5, P6 and P7 printers). This foreign language requirement pertains only to the word-processing capability. Further, it is applicable to the host country where the Contractor's equipment and software is to be installed plus applicable domestic locations (only one foreign language need be loaded at a time). Offerors must propose how to implement this requirement with equipment and software that is compatible with the product line as specified in this RFP and as proposed by the Offeror.

As it may be applicable to the specific foreign language implemented, the display and print must be in upper and lower case letters.


1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
6"

French
Spanish
German
Portuguese
Chinese (Mandarin)
Arabic
Japanese
Serbo-Croatian

Figure C-4

FOREIGN LANGUAGES

C.3.2 Central Processing Unit (CPU)

The processor(s) must provide sufficient capacity to support the workload requirements described in Section J, Attachment III by category and must support all types of processing as defined in this section. The Communications Requirements in Paragraph C.5.2 specifies a System Monitor/Controller as part of the Worldwide Network. This System Monitor/Controller will be in the C4-C6 family of CPUs and, therefore, has all the requirements of the C4-C6.

The central processing unit either by hardware, software or a combination of both shall:

a. Perform hardware byte manipulation.

b. Control all on-line peripheral devices as proposed by Offeror (i.e., W1s-W3s, S1s-S6s, etc.) as well as all local and remote communications terminal devices.

c. Detect arithmetic overflow/underflow and parity interrupts.

d. Be capable of detecting and handling system interrupts.

e. In the event of a power failure or fluctuation that falls outside of the equipment's operational range, the CPU will perform a power fail sequence that will allow for an orderly shutdown as follows:

   1. Files opened by an interactive user must not be lost on occurrence of a power failure.

   2. The status of all registers, pointers and tables must be saved.

f. Have a real-time clock with the following capabilities:

   1. Generate machine interrupts

   2. Automatically roll-over date every 24 hours

   3. Provide accessibility for time of day and date for display to the operating system and user programs

   4. Be resettable from the system master console

g. Have sufficient input/output capacity to support the concurrent operation of all local peripheral devices operating at their rated speeds. In addition:

   1. All local peripherals which produce hardcopy output directly shall be capable of being driven at their rated speed

   2. All local on-line storage devices shall have sufficient channel capacity or be capable of being expanded (channel expansion) to support the projected workload in Section J, Attachment III.

h. Have sufficient memory or be capable of being expanded (memory expansion) to support all variations in concurrent activity execution required to process the projected workload in Section J, Attachment III. Each CPU must be field upgradable to the maximum memory capability of that CPU.

i. Have sufficient number of communications ports or be capable of being expanded (port expansion) to enable the concurrent operation of local and remote communications requirements in Section J, Attachment III.

j. Have the capability to read from and write to floppy disks, which can store a minimum of 360K bytes and are interchangeable between the C1s - C6s.

For processors in categories C4 thru C6, the following capability also applies:

k. Perform mathematical computational accuracy to 15 significant (decimal) digits via double precision operations.

C.3.3 Direct Storage

Offerors must provide a range of compatible devices to meet the storage capabilities, S1-S6, as depicted in Figure C-1. These volume requirements are given in terms of the number of characters of application source code/data to be stored and accessible at any point in time.

Offerors are responsible for increasing these requirements to meet the storage needs generated by:

a. Offeror supplied software (e.g., operating system, utilities, etc.)

b. File/data base management overhead (e.g., schemas, indexes, etc.)

c. Other system overhead related to system operation (e.g., communications buffer space, journal files, etc.).

Offerors must provide sufficient overall data accessibility (i.e., speed of individual access, number of access paths) to ensure the support of the workload described in Attachment III plus a 50 percent growth over the contract life. In addition, the Offerors range of storage devices must not require modifications to applications source code or the operating system when users move from one category of DASD to another. In multiple CPU locations, a mechanism must be provided to allow any CPU to access any DASD.

Offerors must propose DASD with removable disk packs for TEMPEST DASD S1T through S4T. Offerors may propose either fixed or removable storage for non-TEMPEST DASD and TEMPEST DASD S5T and S6T.

C.3.4 Printers

The Offeror must provide 7 categories of printers. The P7 is specified in paragraph C.3.4.4. The P1-P6 proposed printers must meet the following minimum requirements, and the Government shall be the sole judge of print quality and legibility:

a. Print optionally a full print page at 132 characters per line on industry standard 14 7/8-inch wide forms in the landscape mode (across long paper dimension), or 80 characters per line in the portrait mode (across the short dimension)

b. Print all characters of the 95-character graphic subset of FIPS PUB 1-2

c. Have tractor form feed

d. Have a sound reduction hood/cover if the noise level exceeds 60 db at a three-foot radius from the printer

e. Have easily installable ribbons

f. Detect out of paper and end of ribbon, and provide an indication of the condition to the operator

g. Employ a "dry" process for printing and not require specially-coated papers

h. Handle variable width forms from a minimum of four inches to at least of 14 7/8 inches

i. Provide adjustment capability to provide a range of vertical spacing options including at least 6 and 8 lines per inch and partial line spacing under software control and/or operator control.

j. Operate in conjunction with all Offeror's proposed software (except graphics for the P1-P4). For the standalone W1, only the P5 and P6, as a minimum, must operate in conjunction with the Offeror's proposed software for the W1.

k. Provide printer controls on the printer that are easily accessible by the user.

C.3.4.1 High-Speed Printers

The Offeror must provide 3 categories of "High-Speed" Printers:

P1 - Have a rated print speed for 132 characters per line of between a minimum of 400 to at least 600 lpm

P2 - Have a rated print speed for 132 characters per line of between a minimum of 800 to at least 1200 lpm

P3 - Have a rated print speed for 132 characters per line of at least 1200 lpm

These printers must also meet the following minimum requirements:

a. Perform multipart printing of up to 6 legible copies

b. Have fan-fold form stacking capability

c. Support a slewing capability for both automatic and manual, efficient multi-line, top-of-form advance.

d. Detect paper jams and provide an indication of the condition to the operator.

C.3.4.2 Letter-Quality Printer

The Offeror must provide one category of letter-quality (typewriter-like, full-formed, solid-font character impact) printers:

P4 - Have a rated print speed for 80 characters per line of between a minimum of 30 to at least 60 cps

These printers must also meet the following minimum functional requirements:

a. Support superscripts, subscripts, and underlining

b. Print upper and lower case letters in English Language set and the special character YY

c. Perform multipart printing of up to 5 legible copies

d. Be capable of being co-located with all categories of workstations

e. Be capable of being accessed by all categories of workstations

f. Have sheet feeder (both single and twin sheet) capability

g. Provide a variety of type fonts, minimally pica (10 pitch), elite (12 pitch), courier (10 and/or 12 pitch), and OCR-A and OCR-B (FIPS PUB 32-1) using easily interchangeable print elements. For the OCR-A and OCR-B fonts, these must be capable of being read by the Alphaword III, Totec 5000, and Perkin Elmer Dataflex 3210, Laser 2 and Laser 3 Optical Character Readers (OCR).

C.3.4.3 Printer for a Stand-Alone W1

The Offeror must provide a dot-matrix (or equivalent) technology printer that is capable of being co-located and accessed by the W1 when the W1 is operated in a stand-alone mode.

PS - Have a rated print speed of at least 60 cps.

The printer must also meet the following minimum requirements:

a. Support Offeror's proposed graphics capabilities/software

b. Print upper and lower case letters of the English Language

c. Support superscript, subscript, and underlining.

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C.3.4.4 Dual-Mode Printer

The Offeror must provide a dual-mode printer (both draft and near letter-quality) using a dot matrix (or equivalent) technology. Draft-quality is defined as providing a resolution of at least 120 x 180 dots per inch.

P6 - Have a rated print speed of:
Draft - at least 180 cps
Near Letter-Quality - at least 40 cps

The printer must also meet the following minimum requirements:

a. Be capable of being co-located with all categories of workstations

b. Be capable of being accessed by all categories of workstation

c. Support Offeror's proposed graphics capability

d. Support variable horizontal spacing of 10, 12, and 15 pitch

e. Have sheet feeder capability (both single and twin sheet)

f. Perform multipart printing of up to 5 legible copies

g. Support superscript, subscript, and underlining

h. Print upper and lower case letters of the English Language set and the special character ΨΨ

i Provide OCR-A and OCR-B (FIPS PUB 32-1) fonts and be capable of being read by the Alphaword III, Totec 5000 and Perkin

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Elmer Dataflex 3210, Laser 2 and Laser 3 Optical Character Readers (OCR).

C.3.4.5 Laser Printer

The Offeror must provide a Laser Printer (Category P7) with a minimum resolution of 240 dots per inch and produce a minimum of 15 pages per minute, single side. The printer must also meet the following minimum requirements:

a. Be capable of being co-located with all categories of workstations.

b. Be capable of being accessed by all categories of workstations.

c. Support Offeror's proposed graphics capability.

d. Support superscript, subscript, and underlining.

e. Print upper and lower case letters of the English language set which will be all characters of the 95-character graphic subset of FIPS PUB 1-2 plus the special character ψψ.

f. Provide a variety of type fonts, minimally pica (10 pitch), elite (12 pitch), courier (10 and/or 12 pitch), and OCR-A and OCR-B (FIPS PUB 32-1). For the OCR-A and OCR-B fonts, these must be capable of being read by the Alphaword III, Totec 5000 and Perkin Elmer Dataflex 3210, Laser 2 and Laser 3 Optical Character Readers (OCR).

g. Detect paper jams, out of paper and provide an indication of the condition to the operator.

C.3.5 Tape Drives

The Offeror must provide three categories of tape drives:

- T1 - Start/stop 9, Track, 1600 bpi, minimum 50 ips, 10.5 inch reel, one-half inch wide tape
- T2 - Start/stop, 9 Track, 1600/6250 bpi, minimum 75 ips, 10.5 inch reel, one-half inch wide tape
- T3 - 1/4 Inch Cartridge, minimum 4800 bpi, minimum 25 ips, minimum 12 MB storage capacity.

All T1 and T2 tape drives must have a mini-reel (3/4-inch from the hub) capability to facilitate shipment of data tapes through international postal networks. In addition, they must have read after write error checking. The T2 must have automatic threading and rewind.

The T3 tape-cartridge unit must have the capability to write end-of-file markers between files, and have an indicator panel.

C.3.6 Graphics Plotters

The Offeror must provide 2 categories of desk-top graphics plotters. The desk-top graphics plotters will differ only by the number of colors addressable and their usage:

G1 - For W1, 4 to 6 colors
G2 - For C1-C6, 6 to 8 colors

Offerors may propose the same plotter for both the W1 and the C1-C6, if it meets all other requirements.

These desk-top graphics plotters must also meet the following minimum requirements:

a. Produce presentation quality hardcopy graphics

b. Produce transparent medium (for overhead projection) graphics

c. Be driven by the Offeror's proposed graphics software (Paragraph C.4.4.3)

d. Have addressable step size of at least 0.001 inch

e. Print on at least 8 1/2 by 11-inch paper

f. Interface with communications capability via an RS-232-C or RS-449 connection at speeds up to 9600 bps

g. Be accessible by a stand-alone W1 for the G1, and for the G2, W1 and W3 workstations when attached to C1-C6 CPUs. In addition, operate in conjunction with the P5, P6 and P7 printers.

C.3.7 Video Display Terminals (VDTs)/Workstations

Offerors must provide 3 categories of VDTs/Workstations. Each VDT/Workstation must be in the same equipment family. All proposed VDTs/Workstations must meet the following minimum requirements:

a. Display all of the 95-character subset of FIPS PUB 1-2 and have the ability to display characters which when printed will be the special character YY

b. Display simultaneously at least 24 lines of 80 characters on each line (1920-character display) on a minimum screen size of 7 inches by 9 inches

c. Have a detachable, movable, low-profile, "QWERTY" (upper left keys) type keyboard; the keyboard must be identical for W1, W2, and W3 workstations (refer to C.3.1.1 for foreign language requirements)

d. Have a glare-free CRT display

e. Have a rotatable and tiltable CRT

f. Have an operator adjustable display intensity

g. Have a flicker-free video display with full screen of information

h. Have cursor movement capability for controlled left, right, up, down, and home; cursor movement must automatically repeat if cursor movement key is held down

i. Have a supplemental numeric pad with the 0 through 9 and period keys; these keys shall be arranged in a matrix format

j. Have a clear screen feature with cursor automatically positioned at the home position if not menu driven

k. Have programmable display features:

1. Underline
2. Blink
3. Blank

4. Reverse video
5. Protect (display field cannot be changed)

l. A minimum of 12 user definable/programmable function keys (pressing a "control" key in conjunction with a designated "function" key is acceptable)

m. Have function (mode) keys to perform a minimum of indent, forward and backward paging, delete, superscript, subscript and centering

n. Terminal interface to the CPU which meets the standards of the EIA RS-232-C or RS-449 specification or vendor's proprietary interface

o. Be capable of operating effectively in all of the Offeror's proposed Local Area Network (LAN) categories

p. Allow entry and display of upper and lower case English Language set

q. Allow redefinition of keys on keyboard under software control to allow configurations other than "QWERTY". Keycaps must be removable and alternative keycaps provided for necessary extra characters and diacritical marks in alternative languages (refer to C.3.1.1 for foreign language requirement)

r. Be operable with all C1-C6 attached peripherals.

C.3.7.1 Category W1 VDT/Workstation

Offerors must provide category W1 VDTs/Workstations with a minimum memory range of 256 Kilobytes to 640 Kilobytes. These are

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intelligent, full function VDTs/Workstations (personal computers) with local storage and telecommunications. The W1 must use MS/DOS level 2.1 or later version operating system, and must be designed to take advantage of the offeror's software (refer to Paragraph C.4.6), e.g., data-entry, query, report generation, file building and updating, word processing, graphics, electronic mail, and electronic filing. The W1 will have a dual-floppy disk capability (with the option of operating with only one, but upgradable to the dual capability) and will also have the capability of accessing co-located and attached hard-disk files, printer and graphic plotter. The W1 must also be able to operate as a stand-alone workstation, and as an attached workstation to a C1-C6.

C.3.7.2 Category W2 VDT/Workstation

Offerors must provide category W2 VDTs/Workstations. These VDTs/Workstations must have the W1 VDT/Workstation functionality, but without the capability to operate in a standalone mode and without local storage, i.e., operate as a terminal to a C1-C6 CPU. The VDT/workstation must be operable when at least 2000 feet from the CPU or controller. Offerors may propose W1s in lieu of W2s if the W1 will operate at 2000 feet from the CPU or controller. The W2 must be upgradable to a W1.

C.3.7.3 Category W3 VDT/Workstation

Offerors must provide category W3 VDTs/Workstations. These VDTs/workstations must have the W2 VDT/Workstation functionality, but also have a pixel addressable (600 by 240) graphics capability, i.e., a graphics terminal, and a color monitor. The W3 must support the offeror's proposed business graphics package and work in conjunction with the graphics plotter (G2) and the dual-mode printer (P6) and the Laser Printer (P7). The VDT/workstation must be operable when at least 2000 feet from the CPU or controller. Offerors may propose W1s in lieu of W3s if the same functionality is fulfilled. The W3 must be upgradable to a W1.

C.3.8 Remote Communications Controller

The remote communications controller is the communications control function of the C1-C6 processors, that provides serial ports for synchronous, asynchronous, local, and remote links. The communications control function may reside in a separate unit or be integral to the C1-C6 processor.

In addition to the ports that may be required to support the workstations connected to the C1-C6 processors described in Section C.2 WORKLOAD, the following configurations of ports are required for external interfaces described in Paragraph C.5.2.4.2.

Four categories of communications controllers (RC1-RC4) based on the number of ports are required. C1-C6 processors may be configured with any of the four categories of controllers. The table below displays for each RC category the number of ports by baud rate and mode that are to be available at user option.

Baud Rate:	75	300-1200	2400-9600	2400-9600	9600-56/64K
Mode:	async	async	sync	async	sync
RC1 (1-4 ports)	0-4	0-4	0-4	0-4	0-4
RC2 (4-8 ports)	0-2	0-4	0-4	0-4	0-4
RC3 (8-12 ports)	0-8	0-8	0-12	0-4	0-4
RC4 (12-24 ports)	0-8	0-12	0-12	0-12	0-4

Each of the baud rates and related mode are to be available, however, the higher of the numbers shown (e.g., in 0-4, the 4) indicates the maximum number of ports to be available. For example for a RC1, a user may select 1 at 75 asynchronous, 1 at 300-1200 asynchronous and 2 at 2400-9600 synchronous.

The communications controller shall support all of the required capabilities described in Paragraph C.5.2, including port speed requirements, mode (asynchronous or synchronous), protocols, diagnostics, routing/rerouting, and monitoring capability.

Local monitoring of lines and diagnostic capability shall be provided by the communications controller including:

a. Simple point-to-point communications trouble-shooting procedure

b. Event reporting of unusual conditions such as line failure and buffer overflow.

c. Status indications for status of each link, whether the communications controller is online or offline, and power if the controller is a separate unit.

The use of a link shall be transparent to the workstation user.

To meet changes in requirements, the communications controller shall have the capability of being upgraded to add and change ports in the field after the initial installation.

C.3.9 Local Area Networks (Mandatory Option)

The Offeror shall provide three (3) categories of Local Area Networks (LANs) that differ only in the number of simultaneously connected and operating devices.

LAN1 - Supports up to at least 100 devices (including processors)
LAN2 - Supports up to at least 300 devices (including processors)
LAN3 - Supports up to at least 1000 devices (including processors)

Each LAN shall support all of the requirements in Paragraph C.5.2., Communications Requirements, for LANs. In addition, each category of LAN shall provide the following capability.

a. Support W1, W2, and W3 workstations, C1-C6 processors, S1-S7 DASD, P1-P7 printers, and I1 image processors.

b. Drive all workstations and peripherals at their rated optimum speeds.

c. Provide switch selectable EIA RS-232-C and RS-449 interfaces.

d. Operate with up to 2000 feet between adjacent devices (including processors).

e. Operate with a topology and line access method that minimizes device and line contention.

f. Support the security provisions described in Paragraph C.5.1 for both normal and TEMPEST environments.

g. Use a logical address scheme.

h. Provide easy reconfiguration of the LAN.

Each particular LAN configuration will be determined after an engineering study, described in Paragraph C.5.2.3.5, has been completed and approved. The particular LAN configuration will be implemented on a Task Order basis.

C.3.10 Imaging Systems

Offerors must propose an imaging system:

I1 - Provides 2,500 to at least 5,000, 8 1/2" by 11", stored images that are scanned at a minimum of 200 dots-per-inch and compressed at least 10:1

Offerors may propose a separate stand-alone imaging system, or they may propose VDTs/Workstations, printers and disks that are being proposed to satisfy the requirements for each device previously specified in this RFP. In either case, the imaging system must meet the following minimum requirements:

a. Be capable of being integrated with Offeror's proposed C1-C6; i.e., receive and transmit data to the C1-C6.

b. Provide an image resolution of at least 200 dpi for all devices including scanners, terminals and printers.

c. Receive and transmit compressed images.

d. Provide a raster scanner capable of scanning at a maximum time of 15 seconds per 8 1/2" x 11" page.

e. Provide a VDT/workstation that displays the image as viewed by the scanner, allows annotation of the image with textual data entered from keyboard, and meets the requirements of paragraph C.3.7 (Video Display Terminal).

f. Provide retrieval of the first image from on-line image storage media in a maximum of 5 seconds following identification of images to be retrieved.

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g. Provide sufficient magnetic disk to handle temporary storage of images for retrieval or printing.

h. Provide high-quality, high-speed printers for large volume image retrievals.

i. Provide high-quality, lower-speed printers for printing images displayed on terminals.

j. Be driven by the Offeror's image processing software (reference paragraph C.4.4.10).

C.3.11 TEMPEST Equipment

The TEMPEST equipment must meet the requirements of NACSIM 5100A and must be certified before delivery of the first TEMPEST system of each configuration (refer to Figures C-1 and C-2) to the Government. The TEMPEST test plan and results of the TEMPEST testing must be submitted to the Office of Communications Security, at the address specified below, prior to delivery of the first TEMPEST systems procured under this contract. TEMPEST printers and workstations enclosed in RFI shielded cabinets are not acceptable. For other equipment requiring RFI shielding in order to comply with NACSIM 5100A, adequate ventilation must be provided to permit such equipment to operate in accordance with the environmental specifications detailed in Section C.11.

The Contractor shall bear all costs and responsibility for insuring that the equipment proposed is certified for compliance in accordance with NACSIM 5100A. The DOS will not be responsible for testing or certifying any equipment proposed in response to this RFP. If it is determined by the Government that additional TEMPEST testing is required to certify the Contractor's proposed system, the

Contractor shall bear the cost of the additional tests. The Contractor shall insure that all undelivered systems incorporate any required modifications and shall make available retrofit kits which will enable all previously delivered systems to be identically modified at no cost to the Government. The Government will consider any retrofitting to previously delivered systems as component replacement and the provisions of Section F shall apply.

Requests to review NACSIM 5100A, and submission of the TEMPEST Plan and results of the TEMPEST testing, are to be addressed to:

Department of State
2201 C Street, N.W., Room 2331
Washington, D.C. 20520
Attn: Chief, Office of Communications Security

Manufacturers and TEMPEST test facilities must notify the Contracting Officer of the expected TEMPEST test schedule 30 days before testing begins. This allows the Department to observe and review the testing procedure in progress.

NOTE: THE DEPARTMENT OF STATE RESERVES THE RIGHT TO OBSERVE ALL TEMPEST TESTING AND QA PROCEDURES. IT IS THE RESPONSIBILITY OF THE MANUFACTURER/TEMPEST TEST FACILITIES TO MAKE THE ARRANGEMENTS.

C.3.11.1 Additional TEMPEST Requirements

It is anticipated that, during the life of this contract, NACSIM 5100A will be replaced by additional, more stringent requirements for the certification of TEMPEST systems and equipment. The Government will, at that time, negotiate with the Contractor regarding the time required and the additional cost to meet the new certification requirements and to convert installed TEMPEST equipment.

C.3.12 Cables (Mandatory Option)

The length of the cables will vary greatly by site. The Offerors shall propose cables, connectors, and power cords for the connection of all ordered equipment, and they shall be priced on a per-foot basis with connectors and power cords individually priced. Cable may be either PVC or teflon coated at the option of the Government; however, all fiber-optic cables must be teflon-coated. All TEMPEST equipment must be connected using a fiber-optics system; the fiber-optic requirement is specified in Paragraph C.3.12.1. The fiber-optic system may also be used to connect non-TEMPEST equipment.

If the Government elects to procure offered cables from the Contractor resulting from this Solicitation, the Government shall provide the Contractor with the cable requirements on the delivery order. The LAN engineering study (refer to Paragraphs C.3.9 and C.5.2.3.5) will determine the LAN cabling requirements. The Contractor will install all interconnecting cable for all peripherals co-located (same room) with the C1-C6 processor; i.e., DASD, Tape Drives, Printers, Workstations, etc., for all non-TEMPEST and domestic TEMPEST equipment. The Government will install all cabling for all other peripherals.

C.3.12.1 Fiber-Optic System (FOS)

The fiber-optic system (FOS) will connect all remote TEMPEST peripherals (workstations, plotters, imaging systems and printers) to W1T and to C3T-C6T CPUs, and may be used to connect remote non-TEMPEST peripherals to non-TEMPEST CPUs. The Contractor must supply all necessary fiber-optic cables, fiber-optic connectors, coaxial cable and connectors for interfacing as required, and these will be specified in the delivery orders. The FOS must provide the following:

a. The interface for converting between the electrical signaling of the CPU and the optical signaling of the fiber-optic communications system.

b. The interface for converting between the optical signaling of the fiber-optic communications system and the electrical signaling of the remote workstations and printers.

c. The correct transfer of data and control signals between the CPU and the remote workstations and printers in accordance with the performance criteria in paragraph C.5.3.

d. A multiplexing technique whereby the signals from a minimum of eight (8) peripherals are transmitted/received via a single fiber-optic link connected between the CPU and the remote workstations and printers.

e. A FOS system design which provides a sufficiently large optical link budget, or dynamic range, to enable the following operational requirements to be satisfied, throughout the system life, without any manual adjustments or component replacement to the system:

(1) A fiber-optic link of ten (10) meters between the CPU and a remote workstation and/or printer.

(2) A fiber-optic link of one (1) kilometer between the CPU and a remote workstation and/or printer with two (2) butt

splices inserted in the transmit and two (2) butt splices inserted in the receive segments of the link.

(3) A design which compensates for component degradation due to the effects of aging and temperature.

(4) A variation in connector losses of 2 db per connector.

f. External indicators which provide, as a minimum, the operational status of all Contractor provided assemblies external to the CPU.

Any fiber-optic penetration of the Contractor provided equipment shall be of sufficient size to accomodate the fiber-optic cable with connector. All fiber-optic connectors shall be SMA-type and may employ either epoxy or epoxyless, crimp-type technology. In addition, since the Government is attempting to standardize on the fiber-optic cable installed overseas, a glass-clad zip-cord type of fiber-optic cable shall be provided which conforms to CCITT standard G.651 (for 50/125 type cable).

The FOS must be certified in accordance with all requirements of NACSIM 5100A.

C.3.12.1.1 Termination Kit

Offerors must propose a termination kit for terminating a fiber-optic connector to the fiber-optic cable. In addition to the equipment and tools required for attaching a connector to a fiber-optic cable, the termination kit shall include, as a minimum, the following:

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a. A photometer for measuring the strength of the light signal between a receive/transmit fiber-optic cable pair. An adapter must be provided to accommodate 50/125 type fiber-optic cable.

b. A source LED transmitter for 50/125 fiber-optic cable.

c. Sufficient lapping paper to perform 300 fiber-optic terminations.

d. A minimum of 72 butt splices.

e. A crimping tool for terminating the connectors.

The quantity of Termination Kits will be specified in the delivery orders.

C.3.12.1.2 Physical Requirements

Hardware provided in response to this FOS requirement which is not an integral part of the CPU workstations and printers shall not exceed 24" wide by 18" high by 15" deep. If the unit is wall mounted, a technique which electrically insulates this equipment from the wall shall be employed and the Contractor shall provide any mounting equipment as may be required for each system proposed. In addition, the Contractor shall provide a cabinet for those fiber-optic units colocated with the CPU which provide signal to the peripheral devices. The Contractor shall provide all associated mounting hardware and electrical insulators for wall mounting the cabinet. An AC power strip shall be provided inside the cabinet for the fiber-optic units. A means shall be provided whereby AC power can be routed to the cabinet in conduit and terminated at the AC power strip.

C.4 SOFTWARE REQUIREMENTS

The Offeror must propose a set of software including the operating system, file management, applications development support, end-user requirements, and utilities. All proposed software must:

a. Be proven in production environments
b. Be fully supported and maintained throughout the system life
c. Be fully documented and updated throughout the system life
d. Provide descriptive error messages
e. Provide prompts or menus, and a HELP facility
f. Be easy to use.

The system software must provide a set of facilities for the input, processing, organization, storage, retrieval, update, and output (reports, query replies) of large volumes of interrelated data as projected in Attachment III. All software proposed must be licensed both initially and for use throughout the system life. Figure C-6 presents an outline of software requirements; the requirements are applicable to all C1-C6 processors. Offerors software and applications software must be operable on C1-C6 CPUs without modification or recompilation.

The software requirements for the W1 are specified in Paragraph C.4.6.

All Offerors must provide ample and adequate software documentation and tools (such as, software specifications, interface specifications, logic diagrams, file/record layouts, technical manuals, user exits, "software hooks", source-code listings, source code, etc.) to the DOS or a mutually agreeable third party, to allow the DOS to enhance, supplement, customize, interface, and/or bridge the Offeror's "off-the-shelf" software products to each other and/or

Software Requirement	Reference Paragraph
Operating System	C.4.1
System Backup and Restore	C.4.1.1.1
Program Interrupt and Restart	C.4.1.1.2
System Shutdown and Recovery	C.4.1.1.3
Logical Device Assignment	C.4.1.1.4
Job/Task Processing Priorities	C.4.1.1.6
System Scheduling	C.4.1.1.7
Resource Allocation	C.4.1.1.8
Error Control	C.4.1.1.9
Resource Monitoring	C.4.1.1.10
System Resource Accountability	C.4.1.1.11
User Command Facility	C.4.1.1.12
System Procedure Language	C.4.1.1.13
File Management	C.4.2
COBOL Compiler	C.4.3.1.1
BASIC Compiler	C.4.3.1.2
FORTRAN Compiler	C.4.3.1.3
Assembler Language	C.4.3.1.4
Linkage Editor	C.4.3.2.
Program Development Tools	C.4.3.3
Program Library Facility	C.4.3.4
Query Language	C.4.4.1
Report Generator	C.4.4.2
Graphics	C.4.4.3
Database Management System	C.4.4.4

Figure C-6

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Software Requirement	Reference Paragraph
Word Processing	C.4.4.5
Electronic Mail	C.4.4.6
Electronic Spreadsheet	C.4.4.7
Electronic Calendaring/Scheduling	C.4.4.8
Electronic Filing	C.4.4.9
Image Processing	C.4.4.10
Statistics	C.4.4.11
Data/Document/File Transfer	C.4.4.12
Sort/Merge	C.4.5.1
Data Conversion	C.4.5.2
Tape Volume Utilities	C.4.5.3
DAS Volume Utilities	C.4.5.4
WI Software	C.4.6

Figure C-6 (Cont'd)

SOFTWARE REQUIREMENTS MATRIX

the developed software. These enhancements are functional extensions to the Offeror's products that are unique to the Department. It is not the DOS's intent to modify the Offeror's code. The Government will negotiate any non-disclosure agreements that may be required (refer to Subsection H.6d).

C.4.1 Operating System

The Offeror to this RFP must furnish an operating system that provides overall integrated control of any and all potential configurations of proposed equipment and software. The operating system must be functionally and syntactically (commands) equal for the C1-C6 CPUs and must support multiple users in a multiprogramming environment including batch processing, interactive on-line processing, and telecommunications. The operating system must also support concurrent use of all proposed peripheral devices. The system management functions may be satisfied through a separate accounting package or utility, however, the Offeror must indicate whether the operating system or an identified separate package is being used. If the operator's console is inoperable, a designated workstation must be able to operate the system.

C.4.1.1 System Management

All System Management functions must be controllable from the operator's console and by the System Manager.

C.4.1.1.1 System Backup and Restore

An effective system backup capability is required to enable the DOS to systematically backup, and, when necessary, recover from damage to (or loss of) the file system. An option must be available to backup/restore to either disk or tape. The file backup facility must have the capability to backup all files and/or only those files modified since the last complete file backup. The file backup facility must support file archiving on an individual file or library, or group of libraries basis. The file backup facility must allow backed-up files to be restored on an individual file, library, or library group. Library groups can be identified by user and/or project.

C.4.1.1.2 Program Interrupt and Restart

The capability to interrupt a program at a predefined point in applications programs must be provided. The program must be capable of being restarted at the point of interruption.

C.4.1.1.3 System Shutdown and Recovery

The proposed system must provide orderly shutdown and recovery procedures.

a. Component Failure Detection. The proposed systems must provide warning of component and peripheral failures to the system manager so that a manual shutdown may be effected before any compromise of system security/privacy/integrity can occur.

b. Degraded Mode of Operation. The proposed system must accommodate operation in a degraded mode such as may result from the logical or physical removal of failed components (e.g., memory modules, DASD, magnetic tape drives, etc.). By "operation in a degraded mode" is meant the capability to continue applications (e.g., DBMS, etc.) not directly affected by the failed component, but at a lower than normal performance level.

C.4.1.1.4 Logical Device Assignment

It must be possible to logically add and delete physical devices as well as communications lines within the configuration without causing system failure.

C.4.1.1.5 Operating System Security

Paragraph C.5.1 describes the security requirements that the operating system must fulfill.

C.4.1.1.6 Job/Task Processing Priorities

The proposed system must provide the capability for the effective management of CPU utilization and a processing control mechanism such that system and critical jobs/tasks can be given processing priority over less critical jobs/tasks.

a. Categories of Processing. The proposed system must support both interactive and/or online and background and/or batch modes of processing. System manager control must be available over the total number of job/task slots available for batch and/or background as well as interactive and/or on-line job/task processing.

b. Batch Job/Task Priorities. An interactive terminal user must have the capability of submitting batch jobs to be processed in a background mode within an online session and from within a batch job itself. The proposed system must support at least two categories of batch and/or background submission priorities:

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1. Immediate - the batch job executes immediately in a background mode subject only to the batch job priority constraints, batch job slot availability, and peripheral availability.

2. Deferred - the batch jobs will be deferred for later release at a lower priority than 1. above.

C.4.1.1.7 System Scheduling

The proposed system must provide overall control of all job/task scheduling (to include job/task initiation, execution, and termination). The System Manager must be able to alter the scheduling algorithm without re-initalizing the system.

a. Job/Task Scheduling. The proposed system must provide a job/task scheduling function which automatically initiates, suspends, and terminates all job/task execution based on assigned priorities, resource availability and, with respect to background and/or batch jobs, the requested priority level and startup time. The proposed job/task scheduling function must control the initiation, suspension, and termination of both interactive and/or online jobs or tasks and background and/or batch jobs or tasks. A user must be able to suspend a task until a specified length of time has elapsed, and then reactivate the task.

b. Job/Task Termination. The system must provide the capability for the system manager to manually terminate any user job/task. In addition, a user must be able to manually terminate the user's own job/task as permitted by the applications developer or the security administrator.

There must be a mechanism available whereby the system manager can notify the user of the manager's intention to terminate the user's job/task. There must also be a capability to automatically terminate an interactive job/task which has remained idle for a predefined amount of time. Idle time limits must be settable for a predefined amount of time. An idle job/task is defined as one in which the executing program is waiting for system input. Idle time limits must be settable and enforceable at the workstation level. Job/task termination, whether through operator intervention or idle job/task timeout, must be "friendly" in the sense that opened files must be closed, pointers must not be destroyed, etc.

C.4.1.1.8 Resource Allocation

The proposed system must dynamically and automatically allocate all system resources for application programs and vendor supplied software to include:

a. Main Memory
b. DAS
c. CPU time
d. Peripherals (e.g., magnetic tape drives, high-speed line printers, etc.)
e. Communication resources.

C.4.1.1.9 Error Control

The proposed system must provide for (1) the detection and handling of hardware and software errors and (2) the use of diagnostic programs or routines to support preventive and remedial maintenance functions.

a. Error Detection and Handling

The proposed system must perform automatic error detection, recovery, and retry as appropriate, as well as the trial of alternate data paths for devices for which alternate paths have been provided. The system must automatically notify the system manager of any hardware or system software error for which the system manager must initiate corrective or recovery action. The system must automatically record hardware/system software errors and relevant status information in a machine-readable error log. The system must display and print error logs upon request by the system manager or system engineers. Status information must be available to the system manager and the user in the event of an unrecoverable hardware/system software error.

b. Diagnostic Programs

The offeror must provide a set of diagnostic programs or routines to support preventive and remedial equipment maintenance functions. The diagnostics must be able to isolate problems down to the board or component level. The diagnostic programs or routines must be able to be invoked from a remote location by the vendor's engineers and by trained Department of State personnel to assist in trouble shooting. Specifically, the diagnostic programs must be able to be invoked by the System Monitor/Controller (refer to Paragraph C.3.2).

C.4.1.1.10 Resource Monitoring

The proposed system must support an invokable extensive resource monitoring that operates interactively and/or in a batch mode. The capability must include the ability for the system manager to display realtime job status for a single job/task and all jobs/tasks on the system. Status information per job/task must include:

a. The user ID
b. Job/task identification
c. Job status (e.g., idle, running, I/O wait, etc.)
d. Program currently executing
e. Memory allocated (both shared and private)
f. Device assignments and status, if not readily available to the system manager through the system operator display
g. Connect time (total time user has been logged on)
h. Active workstation/device identifier
i. Telecommunication port (if applicable), if not readily available to the system manager through the system operator console
j. Cumulative CPU time

The proposed resource monitoring facility must also allow a system manager to determine the total amount of direct access storage (DAS) available on the system, the amount allocated to users, the amount free, and the amount allocated to operating system overhead functions such as paging or swapping.

Device status information must be made available to a system manager for every peripheral device which is part of the system configuration.

The system resource monitoring utility must be capable of recording and displaying resource activity with respect to paging/swapping and DAS I/O activity (unit reads/writes).

All of the foregoing resource monitoring capabilities must be invokable remotely by the System Monitor/Controller. The site I.D. must then also be available to the System Monitor/Controller.

C.4.1.1.11 System Resource Accountability

The proposed system must support a system resource accountability capability. The facility must collect and record resource utilization information at least to the user ID level for each job. This information must be accessible by the report generator and the statistics software, if the report generation and statistics capability are not included in the system resource accountability software. The following statistics must be collected, recorded (accumulated daily and weekly), and, at the option of the System Manager, printed in the Offeror's predefined format; additionally, the data must be available for polling by and transmission to the System Monitor/Controller:

a. CPU run-time
b. Main memory utilization
c. Connect time per terminals/workstations
d. I/O transactions per process, session or device
e. Pages/lines printed
f. Paging activity
g. Program/application package accessed.

C.4.1.1.12 User Command Facility

The proposed system must support a command facility which serves as the user interface to the operating system. The user command facility must be easy to use in the sense that all commands are descriptive of the basic function they perform, employ typical default

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arguments, and can be abbreviated to uniqueness. Commands must be provided to perform the following functions:

a. Initiate/terminate jobs/tasks

b. Obtain help for any command function unless menu driven

c. Obtain the current date, time, and session duration

d. Obtain a complete display of directories or libraries on a volume, or files in a directory or library

e. Invoke any system level program proposed such as the text editor, language compilers, linkage editors, debuggers, sort/merge utilities, magnetic tape read/write utility, etc.

f. Copy, rename, and delete DAS files as authorized

g. Display and print the contents of any DAS file (as authorized) in a variety of formats (ASCII text, binary, etc.)

h. Logoff.

The proposed user command facility must support a variety of user selected options for each command as appropriate to enable the user to invoke selected functions of a command. For example, an extended directory of a user's file area (to include file size, latest access date, creation mode, protection level) might be invoked with a switch to a simpler command which only returns the names of all files in a user's directory.

C.4.1.1.13 System Procedure Language

The proposed system must support a system procedure language which allows a predefined sequence of system commands (see C.4.1.1.12) to be submitted both during an interactive job session (for immediate execution) and as a background and/or batch job. Minimally, the system procedure language must provide the following features:

a. Accept all system level commands

b. Be capable of being saved/stored in a DAS file for later retrieval and execution

c. Provide statement labels and control of flow capability including IF...THEN...ELSE, DO WHILE, and DO UNTIL (or their functional equivalents)

d. Support error handling

e. Support arithmetic, logical, and string functions

f. Provide the capability to send/receive command/program assignments and variable values both upon/during procedure initiation and execution

g. Support terminal echo on/off such that a selection to display or suppress system input may be made

h. Capability of being executed automatically upon logon.

For those system procedure files executed as batch/background jobs, a complete session log file (subject to the constraints of g.

above) must be created which records every aspect of the execution of the procedure at the option of the System Manager.

C.4.2 File Management

C.4.2.1 File Access Methods

The Offeror shall provide a file management system which supports the following access methods:

a. Sequential access method

b. Indexed sequential method

c. Direct (random) access method.

The system must support file structures containing fixed and variable-length records and provide file access independent of the physical devices on which the file is stored. Accessing functions must include at least the following:

d. It must be possible to access all files by logical name

e. For disk files, there must be a capability to access a file using up to eight keys

f. All files must be accessible using the interactive query language (Paragraph C.4.4.1) and the report generator (Paragraph C.4.4.2)

g. All files must be protected as specified in paragraph C.5.1, Security Requirements

h. The System Manager must be able to access all files on the system.

i. The ability to support multi-volume files and multi-file volumes.

C.4.2.2 File Development and Maintenance

The Offeror must provide file development and maintenance software to include the following functions:

a. The ability to create, copy, sort, display/print, read, rename, modify, and delete files

b. Definition and modification of record formats, including adding, deleting, and resequencing fields, and changing field size

c. Archiving and retrieving of selected files

d. A file copy and reorganization function across physical volumes which allows for detection of damaged records, a change in access method, data compression, secondary key changes and/or file expansion with a warning when the physical limitation of the file is being approached.

C.4.2.3 Library Management

The library management system must include a method for controlling file inventory. Requirements are:

a. Automatic maintenance of a directory of the files on each DAS volume. The directory must contain: file name, owner ID, date created, date last modified, file organization, and size.

b. On request of an authorized user, the system must display the directory.

c. The capability to maintain a catalog of file directories.

d. A library maintenance facility providing the capabilities to add, change, and delete files. Upon request by an authorized user, the system must list all or selected modules by name, version, owner, date created, date last modified, location, and size.

e. The ability for authorized users to backup and recover all or selected files by specific file names, libraries, and volumes.

C.4.3 Applications Development Support

C.4.3.1 Programmers' Procedural Language Processors

The Offeror shall provide fully supported language processors for COBOL, BASIC, FORTRAN, and Assembler Language. All code produced must be compatible, relocatable object code for use on the C1-C6 processors with no changes required between processors. At the programmer's option, the object code may be placed on tape or disk. It must be able to be linked with code generated by the same language or other language.

C.4.3.1.1 COBOL Compiler

The proposed COBOL compiler must meet the requirements for the low intermediate level for each language module of FIPS PUB 21-1 Federal Standard COBOL. The compiler shall be able to:

a. Facilitate the identification, at the source statement level, of any non-standard usage

b. Produce re-entrant object programs

c. Produce symbol tables and procedure maps

d. Cross-reference internal labels with program or procedure names, and line numbers

e. List displacement for executable statements

f. Identify unreferenced labels

g. Print program or procedure calls.

C.4.3.1.2 BASIC Compiler

A BASIC compiler must be provided which meets the specifications established in FIPS PUB 68. The compiler must also produce re-entrant object programs.

C.4.3.1.3 FORTRAN Compiler

A standard ANSI FORTRAN 77 compiler must be provided which meets the specifications established in FIPS PUB 69. The compiler must also produce re-entrant object programs.

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C.4.3.1.4 Assembler Language

An Assembler Language must be proposed which will produce object programs from source language, and the object code must be re-entrant. The assembler processor must also produce listings that show the source language as coded, addresses, symbol tables, and external references.

C.4.3.1.5 Other High-Level Language (Mandatory Option)

Offerors must propose at least one additional high-level language such as C, Pascal, Ada, etc.

C.4.3.2 Linkage Editor

A linkage editor must be provided which has the capability to:

a. Combine several object modules into a single executable module

b. Link called subroutines

c. Replace a component within a linked executable module

d. Link object modules from separate libraries

e. Report link status information on user request, i.e., name and location of linked programs, size of linked programs, external reference table, unsatisfied external references, successful link

f. Be executed from the text editor.

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C.4.3.3 Program Development Tools

The Offeror must provide a text editor, test and debug aids, menu and screen formatters, data/entry edit and an application development aid. These tools must be flexible, easy to use, and provide support for efficient program development and testing. In addition, these tools shall be available for use with at least COBOL.

C.4.3.3.1 Text Editor

Offerors must provide a general purpose text editor for use in creating and editing source programs. Required functions that must be supported are:

a. The ability to add and delete lines and character strings

b. A single and global search and replace capability

c. The ability to replace a character string with a string of a different length

d. The capability to copy text within files (non-destructive copy) and from external files

e. The capability to move text segments within files (destructive copy)

f. User definable horizontal tabbing capability

g. Scrolling vertically and horizontally, in both directions

h. The capability to maintain intact the original version of the file being edited until the user explicitly requests a save of the edited version or until the user ends the editing session

i. An alpha-only shift-lock capability to shift only the alphabet to capital letters

j. If the Offeror proposes a line-number oriented editor, the editor must support and make line sequencing and resequencing options with user-definable starting line number, increment and automatic default values (for both starting line numbers and increment)

k. A capability for stipulating the programming language to be written with automatic horizontal tabbing appropriate to the indicated source language, including at least COBOL; this capability must be user-modifiable

l. Capability to move over several lines of text in user-definable increments

m. Capability to move the cursor to the beginning of a file and to the end of a file

n. Capability to initiate compile, link, and/or execute a program from the text editor, and return without having to reset text editor parameters

o. An on-line HELP facility or a menu-driven interface for HELP.

C.4.3.3.2 Screen Formatter

Offerors must provide an efficient method to define screen formats and fields. Requirements are:

a. The capability to format and modify a screen and assign field attributes, e.g., protected fields and field types

b. Screen formatting capabilities for protected as well as unprotected fields including at least:

    1. Blanking masks
    2. Bold
    3. Underlining
    4. Blink

c. The ability for a program to address and invoke screen formats by name

d. A screen inventory facility to list and delete screens by name and owner

e. The capability to test screen formats without running an application program

f. The ability to position the cursor via the application program

g. The ability to define multiple occurring fields on a screen

h. An on-line HELP facility or a menu-driven interface for HELP.

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C.4.3.3.3 Data Entry/Edit

The Offeror must provide a data entry/edit language that will function in conjunction with the Screen Formatter requirement in paragraph C.4.3.3.2. This data entry/edit language must have the following minimum characteristics:

a. Ability to add, delete, or modify records in a file

b. Ability to perform range checks on numeric entries

c. Ability to test for numeric and alphabetic values

d. Ability to right justify a numeric field

e. Ability to insert leading zeroes, and leading and trailing blanks

f. Ability to provide an audible signal or locked keyboard upon entry of an illegal character. This function must be programmable.

g. Ability to have must-enter and optional fields

h. Ability to perform table look-ups on validating/generating fields. This feature must perform all indexing and accessing of the table as well as a user-friendly method to load and update the field

i. Ability to display all data on the screen as it is keyed

j. Ability to automatically duplicate a field from a previously entered record

k. Ability to retrieve, display, and correct previously entered data with all required editing being executed on the corrected data element

l. Ability to provide error messages

m. Ability to allow the operator to interrupt a procedure and address a different function while maintaining all pointers and indicators in the interrupted procedure for resumption of that activity

n. Ability to reinsert a changed record back in the original position.

C.4.3.3.4 Menu Building and Revision

Offerors must provide an ability to create and modify application menus. Required capabilities are:

a. The capability to create and modify a menu

b. Menu formatting capabilities, including multiple occurring fields and at least:

1. Blanking masks
2. Bold
3. Underlining
4. Blink

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c. Menu option selection by cursor positioning and command entry

d. The ability for an application program to address and invoke menus by name

e. An inventory facility to list and delete menus by name and owner

f. An on-line HELP facility or a menu-driven interface for HELP.

C.4.3.3.5 Debug/Test Aids

The Offeror must provide interactive run-time test and debugging aids for use with all high-level languages which include the ability to:

a. Set and remove breakpoints within programs

b. Perform step-by-step program execution

c. Display the internal representation of specified storage areas following a breakpoint by variable name or storage address

d. Modify specified storage areas following a program break or abnormal program termination, by variable name or storage address and continue execution

e. Control processing following an abnormal program termination to produce or suppress a memory dump

f. Display and list displacement for executable statements

g. Identify statements which alter the contents of a statement label

h. Display program or procedure calls

i. An on-line HELP facility or menu-driven interface for HELP

j. Provide a trace capability

k. Provide for symbolic debugging.

C.4.3.3.6 Application Generator

An Application Development Aid must be provided that will permit programmers to:

a. Define inputs and outputs

b. Define processes using specified parameters.

With the definitions of a and b, the software will generate portions of the source code of programs for use with the language specified in paragraph C.4.3.1.1 (COBOL).

C.4.3.4 Program Library Facility

A Program Library Facility must be provided that maintains development, test, and production source and object codes.

C.4.4 End-User Requirements

Software must be provided that will allow end-users to satisfy their own information requirements by giving access to information, storage, manipulation and file transfer (upload/download among systems).

C.4.4.1 Query Language

DOS users must be able to access application data files for ad hoc retrieval and reporting purposes. The query language must support the following features:

a. Multi-key access to files

b. Selection of data based on multiple criteria, using the algebraic operators: equal, not equal, greater than, less than, greater than or equal to, less than or equal to; and the Boolean logical operators: NOT, AND, and OR

c. Capability to store query language command sets for later retrieval and execution, or inclusion in another command

d. A direct interface to the report generator or a set of imbedded equivalent features

e. The capability to control the order of evaluation of phrases using parentheses and a default expression interpretation sequence

f. Ability to read from and write to sequential, indexed sequential

g. Ability to access data from several files with one or more query statements

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h. Ability to print, display, and extract output user files (as sequential ASCII files)

i. An on-line HELP facility or menu-driven interface for HELP.

C.4.4.2 Report Generator

The DOS users will be required to respond to ad hoc and operational reporting requirements using files described in Paragraph C.4.2. Report generation functions must include the following characteristics with reasonable defaults:

a. Capability to sort/merge with the following user specifiable options:

  1. Ascending, descending order

  2. Alphanumeric, numeric or alpha keys

  3. The capability to sort data using from one to eight sort keys, ascending or descending on each key

  4. Multiple data sources residing on disk files.

b. Capability for the following arithmetic functions if not included in the Query Language:

  1. Addition, subtraction, multiplication, and division

  2. Percentage

  3. Mean

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4. Maximum/minimum for numeric and alphanumeric elements

5. Sum of elements

6. Data manipulation, e.g., calculating number of days between dates

7. Average.

c. Capability for the following user-specifiable report control break options:

1. Print totals and subtotals for at least 8 levels

2. Print summary statistics including count, sum, minimum, maximum

3. Force page break or print subtotals and subtitles without a page break

4. Print summary data only (suppress detail).

d. Capability to extract input data from sequential and indexed sequential files

e. Capability to write sequential ASCII files

f. Support user specifiable report formatting

g. Ability to store commands for later retrieval and execution or inclusion in another statement

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h. A direct interface to the query language; or a set of equivalent imbedded functions

i. An on-line HELP facility or a menu-driven interface for HELP.

C.4.4.3 Graphics

The Offeror must provide host-based and W1 graphics software to support the proposed graphics devices (plotters, and W1 and W3 workstations). Required functions are:

a. Display data in bar, line and pie charts

b. Display data in stacked bar and cluster bar charts

c. Control color and display batching options

d. Access data from:

   1. DBMS files

   2. Sequential, indexed sequential, and direct access files

   3. User input

   4. Spreadsheet files

   5. Statistics.

e. Integrate user-defined legends and commentary

f. An on-line HELP facility or menu-driven interface for HELP

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g. Be capable of producing text chart

h. Be capable of producing multiple plots per page

i. Support multiple character fonts

j. Be capable of integrating graphics output with word processing text.

The Offeror must provide, either as a separate package or as an extension to the foregoing specified graphics package, graphics software that supports the proposed graphics devices and permits the user to create free-form drawings including, but not limited to, flowcharts, organizational charts, and floor plans. The following functions are required:

k. Change resolution of chart to match resolution of graphics displays, printers, and plotters

l. Selective erasing of lines and symbols

m. Access data from:

   1. User input (keyboard)

   2. User created templates, fonts, text, and charts

n. Integrate user-defined legends and commentary

o. Be capable of producing text charts

p. Be capable of producing multiple interconnected plots per page

q. Be capable of being integrated with word processing text

r. Templates, symbols, fonts, text, and charts can be stored on the system for later reuse.

C.4.4.4 Database Management System (DBMS)

The Offeror must provide an integrated database management system (DBMS). The DBMS must support at least 1-million records, and a minimum record length of 256 characters. The proposed DBMS must provide the following features:

a. A database definition facility for defining and physically establishing the database

b. Data manipulation language/host language interface

c. Data dictionary

d. Data independence, both logical and physical

e. Database controls

f. Database protection

g. Database backup and recovery

h. Command/query language

i. Report Generator

j. Text storage and retrieval

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k. Performance monitoring

l. Utilities

m. Interchange of data.

These requirements are described in the following paragraphs.

C.4.4.4.1 Database Definition

DOS requires English-like commands to define the entities in a database, i.e., the schema, subschemas, and elements. The database definition commands must provide the:

a. Ability to create and modify the schemas and subschemas

b. Ability to display error messages to indicate incorrect operations

c. Ability to assign symbolic names to databases, data elements and groups of data elements, and to have alphanumeric characters for the symbolic name

d. Ability to define the characteristics of each data element such as size and type, i.e., alpha, numeric, or alpha/numeric

e. Ability to validate input against the specified data element structures

f. Ability to store, display and print information about the database, including size and structure information

g. Ability to have at least a 256-character length data element.

C.4.4.4.2 Data Manipulation Language/Host Language Interface

The DBMS must provide a facility to access and maintain the information in the database. This facility must be accessible by an interactive application program written in at least the high-level language of COBOL as specified in Paragraph C.4.3.1.1.

These commands must include at least the ability to:

a. Open a database

b. Close a database

c. Access the database by indexing, sequential, and random methods

d. Logically move through a database file, e.g., find, select, etc.

e. Create, read, write, modify, and delete records and files.

f. Use comparative operators "equal to", "not equal to", "less than", and "greater than"

g. Use logical connectors "AND", "OR", and "NOT" to combine conditional expressions

h. Allow data items in conditional expressions to be alphanumeric or numeric

i. Use arithmetic expressions with order of precedence, unless altered by use of parentheses, as follows:

- Exponentiation, left to right
- Multiplication and division, left to right
- Addition and subtraction, left to right

j. Provide the capability to conveniently handle dates, Julian and Gregorian, with appropriate routines for conversion

k. Provide error codes for proper detection and flagging of errors.

C.4.4.4.3 Data Dictionary

The Offeror must provide a data dictionary which is integrated with the database management system. The data dictionary must provide the means of defining all database entities within the system. These definitions shall include:

a. Data fields and the edit characteristics of the data to be stored in the fields

b. Records, with the fields to be included in the record

c. Files, with the records to be included in the file

d. Database(s) with the records or the files included

e. Record-to-record, file-to-file, and record-to-file relationship

f. Data ownership.

The data dictionary must also provide the following capabilities:

g. Search the dictionary on data names/alias

h. Support data items with the following characteristics: date, time, author, create date, and alias

i. Provide same access controls to the dictionary as applied to the DBMS to allow different users different levels of access

j. Provide capability to write queries/reports against the dictionary to detail data element entries.

C.4.4.4.4 Data Independence

The DBMS shall provide for logical data independence. Altering an application program must not affect the database structure. The Offeror must also provide physical data independence, i.e., storage device independence such that data may be spread over multiple physical volumes. These capabilities can be provided by user-views, multiple subschemas, or similar mechanisms.

C.4.4.4.5 Database Controls

The DBMS must provide the following controls:

a. Buffer management - The ability to specify shared or dedicated buffering for files must be available

b. Batch/On-Line concurrency - The ability to simultaneously update with on-line and batch application programs must be provided

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c. Multi-threading - The ability to have at least two programs simultaneously read a file, and allow multiple updates against different files

d. Contention - When two or more programs attempt to access or update the same database record, the DBMS must:

   - Temporarily lockout one program trying to update the same record, but not cause program termination

   - Support application program control of file lockouts so that a program can acquire exclusive use of a certain file for special processing.

C.4.4.4.6 Database Protection

The DBMS shall include facilities for defining controlled access to data such that the ability to retrieve, alter, and delete data is explicitly limited to specific personnel. Access control shall distinguish between read-only and read-write authorization at the database, record, field, and command level.

C.4.4.4.7 Database Backup and Recovery

The DBMS shall provide for maintaining the integrity of the database and provide the ability to recover from a system failure to a point before the failure occurred. Requirements are:

a. Ability to copy and reload the entire database or portions thereof on magnetic tape on request.

b. Transaction logging of full text of every update transaction.

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c. Ability to bracket a set of logical transactions such that if recovery is required, whole logical transactions are either left intact or backed out of the database. This can be achieved through routines under application program control.

d. Ability to log both the before and after image of an update transaction.

e. Ability to recover the database from the transaction log up to the last point of known integrity.

f. Ability to reapply the entire accumuated transaction log to the database, where the database has been reinitialized from the last known backup.

g. Ability to restore all associated indicies, pointers, directories, and access lists during a recovery operation.

C.4.4.4.8 DBMS Command/Query Language

The DBMS must support an integrated English-like command/query language for the end-user to provide basic database functions in both interactive and batch mode. At a minimum, the command/query language must support:

a. Basic query capabilities (e.g., PROJECT, JOIN) in conjunction with Boolean (AND, OR, and NOT) and comparative (EQUAL, NOT EQUAL, GREATER THAN, LESS THAN, etc.) operators

b. An enhanced query capability using built-in functions (e.g., COUNT, SUM, AVERAGE, MAXIMUM, and MINIMUM)

c. The capability to ADD (INSERT), DELETE, and UPDATE (CHANGE, MODIFY) both individual records or multiple records based on a given selection criterion

d. Routine database maintenance functions (DUMP, LOAD, reorganization/redefinition of database relations, and modification of existing attributes ((data element)) definitions)

e. Arithmetic functions of add, subtract, multiply, and divide

f. Format specification for output text (headings and columns)

g. Output in user specified sort order.

C.4.4.4.9 DBMS Report Generator

The DBMS must support an integrated report generation capability with English-like commands by the end-user to provide for the easy generation of end-user oriented reports. The report generator must support:

a. Default and user-defined report titles, headers, and footers

b. Page numbering, page breaks, and date/time indication

c. Calculations to include sums, means, percentages, multiplication, division, and differences to be made of specified data elements, with at least 8 levels of totals

d. Allow printing of summations and tallies only, or to intersperse them with detail lines.

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e. Format specification for output text (headings and columns).

C.4.4.4.10 Text Storage and Retrieval

A function, either integral to the DBMS or separate from the DBMS but interfacing to the DBMS' files, shall be able to store and retrieve components of textual data. The following capabilities are required:

a. Each component of text shall be maintained as a group of records; creation, updating, and retrieval shall be performed a record at a time

b. The ability to perform word searches on one or more words, on document numbers, and on citations

c. The ability to perform proximity searches of ADJACENT TO, IN THE SAME SENTENCE, IN THE SAME PARAGRAPH, IN THE SAME DOCUMENT or equivalent commands

d. The ability to interface with word processing and electronic filing.

C.4.4.4.11 Performance Monitoring

The DBMS must have a performance monitoring capability to allow the systems designers and Database Administrator to monitor the performance of the system during system and pilot testing, and provide utilization statistics.

C.4.4.4.12 DBMS Utilities

The DBMS must provide utilities that allow the Database

Administrator to perform the following functions without the use of application programs:

a. Obtain formatted reporting of the database contents by file

b. Unload database files and reload them into files of different sizes

c. Add, change, delete database records

d. Obtain verification of database logical structure and record-to-record and file-to-file relationships

e. Reorganize the database

f. Use any necessary migration/conversion aids required by new releases of vendor's operating system

C.4.4.4.13 Interchange of Data

The DBMS shall interchange data as follows:

a. The ability to interchange data with:

1. Indexed sequential files
2. Sequential files.

b. The ability to read and produce a standard ASCII file.

c. The ability to enter data using a screen developed by the screen formatter (C.4.3.3.2).

C.4.4.5 Word Processing Software

Word processing capabilities must be available on all proposed terminals. The word processing subsystem must provide the capability to enter, change, retrieve, and print letters, forms and other documents.

Other required capabilities of the word processing software are:

a. Prepare and edit the 95-character subset of FIPS PUB 1-2, and have the ability to use characters which when printed will be the special character YY

b. Automatic maintenance of a document directory including name, date created, date of last modification, and size

c. Capability to rename, merge, and delete documents

d. Password protection on documents

e. Ability to store integrated text and formats

f. Insert, move, copy, and delete characters, words, lines, paragraphs and text blocks within a document

g. Cursor movement within a document up, down, left, right, to the next page, to the previous page, to the beginning of the document, to the end of the document, to the top of the page, to the end of the page, and to a specific page

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h. Ability to copy partial/entire text from one document into the document that is being created/revised

i. Automatic, with option to override, word/line wraparound with adjustments for margin and indentation changes

j. Preservation of column integrity and column wrap

k. Global search and global search with an optional replace verification feature

l. Boldface characters, with the ability to add or remove boldface without retyping text

m. Underlining with the ability to add or delete underlining with-out deleting or retyping the text

n. Subscripting and superscripting of alphanumeric strings of characters

o. Display text as it will be printed with indicators for special and non-displayed symbols and formatting

p. Horizontal and vertical scrolling

q. Automatic, with option to override, pagination and page numbering and renumbering with the ability to specify the beginning page number on any page

r. Mail-list merge functions

s. Maintenance of footnote format integrity

t. Identification of hyphenation candidates

u. Full screen editing

v. Automatic spelling verification through a system-provided dictionary of at least 50,000 words and a user-provided dictionary that is a common use dictionary to be shared by all users on the system. Total storage for the user provided dictionary will be at least 50,000 words.

w. Ability to create or edit a document while printing another document

x. Continuous and single page printing

y. Ability to examine print queue status and to control user documents in the print queue

z. Ability to create a header and a footer and have it carried through all pages

aa. An on-line HELP facility or menu-driven interface for HELP

The following required capabilities shall also allow multiple settings within a document:

bb. Adjustable right/left margin control and upper/lower page limits

cc. Adjustable vertical pitch control, including at least 6 lines per inch and 8 lines per inch dd. Adjustable horizontal pitch control, including at least 10, 12, and 15 characters per inch, and proportional spacing

ee. Adjustable vertical line spacing, including at least single space, double space, half-space, and space and a half plus a suitable means to obtain triple space

ff. Automatic and adjustable indenting and tabbing

gg. Centering text between margins

hh. Text justification

ii. Column justification: centered and decimal alignment

jj. Automatic index generation capability based on user-flagged index items

kk. Automatic table-of-content generation capability based on user-flagged or system generated headings.

C.4.4.5.1 Stored Commands for Word Processing

A function, either integral to the Word Processing software or separate from the Word Processing software but interfacing with the Word Processing, shall be able to create, update, store, and recall "boilerplate" information and to incorporate that information into word-processing documents. The following capabilities are required:

a. Be menu driven or interface with the Menu Building and Revision software (C.4.3.3.4)

b. Provide prompts to step a user through a specific process and allow override of a step

c. Store keystrokes and commands for later recall and execution

d. Support "If" tests and nested "Ifs"

e. Allows insertion of stored information at the point where the cursor is located, provided that the location is blank and not protected

f. Allows stored commands to call and execute other stored commands automatically

g. Provides automatic repetition of single or multiple entries until a stated condition is met

h. Perform table lookups to retrieve and insert the found entry(s) into a word processing document

i. Provides tests for "equal," "greater than," "less than," and "not equal."

C.4.4.6 Electronic Mail

The Offeror must provide an electronic mail package offering the ability to transmit messages from one user to another or broadcast messages to a group of users or all users, using any available workstation with access rights. The users may be on the same system or on different systems (i.e., Intra- and Inter-system transmission to include LANs). Required electronic mail functions are:

a. Ability to enter and edit text online with an integral text editor

b. Ability to transmit variable-length messages to one or more users

c. Ability to retain any format control codes that exist in the document prior to transmission (i.e., margins, tabs, indentations, etc. are to be retained within the message)

d. Capability to perform typical "mailbox" operations. The user must be able to:

   1. Create and send mail to another mailbox or group of mailboxes

   2. Review and read text of messages that the user has received and sent in the last 60 days

   3. Compose new messages

   4. Reply to messages received

   5. Create and send carbon copies

   6. Save or delete messages

   7. Selectively print and route messages to a specific or default printer

8. Send blind carbon copies, i.e., send messages to a third party without notification to the primary recipient(s) of the original message that copies have been sent to other mailboxes

9. Use aliases for message addresses and mailboxes

10. Forward messages to single and multiple mailboxes

11. Optionally delete a message following receipt

12. Create specifically formatted documents, e.g., memos with prompts for "TO," "FROM," "COPIES," "SUBJECT," etc.

13. Review a list of sent messages, i.e., for the sender to see if a specific message has been received by the recipient

14. Ability to send messages consisting of files produced by the word processing subsystem.

e. Capability to transmit and receive the following message types for private, public, and group files:

   1. Certified - Verification of receipt sent to the sender

   2. Confidential - Displays only with proper user identification

f. Ability to receive messages without active participation of the receiving user

g. Ability for a user to add comments to a received message before rerouting the message to other users

h. Electronic directory of users, including mailing/distribution list containing up to 500 addressee groups with a minimum of 50 addresses in each group

i. A date/time stamp on each message sent

j. A file of messages sent with the ability to retrieve deleted messages

k. Ability to set a period of time to trigger automatic purging of mail

l. An ability to store messages using the filing subsystem

m. Ability to write command macros or procedures that can automatically execute electronic mail functions

n. Ability to group a number of messages together as a packet for sending to one or more recipients

o. Ability to transmit textual data

p. Ability to prioritize messages (i.e., Flash, Immediate, Priority, and Routine) and the ability for the receiver of a message to review messages on a first-in, first-out basis within a priority.

q. Ability for a message drafter to specify that a response is required.

r. A prompting facility that steps a user through a specific task

s. An on-line HELP facility or a menu-driven interface for HELP

t. Operate in conjunction with the word processing software.

In addition to the foregoing functions, the offeror must propose a "tool" which will allow the Department of State to define and implement a customized data-entry procedure which captures the appropriate envelope data depending upon the type of correspondence activity the user is engaged in.

C.4.4.7 Electronic Spreadsheet

The Offeror must provide an electronic spreadsheet capability.

Required capabilities are:

a. Ability to build and edit models with up to 50,000 cells

b. Ability to enter as cells of a model:

   1. Numeric values

   2. Alphanumeric character strings

   3. Arithmetic formulas (with at least five basic arithmetic functions of addition, subtraction, multiplication, division, and exponentiation) including iterative references involving circular dependence

   4. Logical formulas

    5. Blanks

- c. Ability to refer to cells by name, absolute position, and relative position

- d. Ability to insert, delete, copy and move rows and columns within a model

- e. Ability to reference and copy rows, columns, or cells from external models to the current model

- f. Ability to recalculate totals in columnar chart(s) when changes are made within the column(s).

- g. The capability to automatically interchange data files with:

    1. The DBMS files bidirectionally

    2. Sequential, indexed-sequential files bidirectionally

    3. The graphics subsystem from the spreadsheet

    4. Word processing system from the spreadsheet.

- h. Ability to build and store user generated commands.

- i. An on-line HELP facility or menu-driven interface for HELP.

C.4.4.8 Electronic Calendaring/Scheduling

The Offeror must provide an electronic calendaring system. Requirements include the capability to:

a. Schedule up to 192 personnel in up to 10 groups for up to 10 discrete events per day for a period of five days. Each office must be able to schedule people between offices and to resolve conflicts among meetings in several offices

b. Schedule resources, e.g., conference rooms, to support the events described above

c. Provide a To-Do feature which allows a user to record, prioritize, and to sort a personal To-Do list.

d. Serve as a reminder device or tickler file for key events on critical dates

e. Operate Intra-and Inter-systems and in a LAN

f. Provide an on-line HELP facility or a menu-driven interface for HELP

C.4.4.9 Electronic Filing

DOS requires a system that allows for storing and retrieving information electronically. Requirements are:

a. The ability to file and retrieve for display on a VDT and for user optional printing, information by at least:

1. Author(s)
2. Subject(s)
3. Date(s)
4. Minimum of 8 Keyword(s)
5. Title

b. The ability to create, read, edit, add to, delete public, shared, and personal electronic filing drawers, file folders, and file cabinets, or equivalent hierarchical structures

c. An interface to electronic mail which allows for filing of mail produced by the electronic mail system

d. An interface to word processing which allows for filing of documents produced by the word processing system

e. An interface to text storage and retrieval for searches and retrievals

f. An on-line HELP facility or a menu-driven interface for HELP.

C.4.4.10 Image Processing

The Offeror must provide image processing software which provides the following capabilities:

a. Provides interface with the Offeror's proposed word-processing and graphics software

b. Allows composing a layout of image and textual data; data are either entered from keyboard or retrieved from word-processing and graphics

c. Provides for the recording and maintenance of the storage location of each image

d. Provides for accurate and efficient control of image movement to and from storage media to requesting devices, i.e., terminals and printers

e. Provides for archiving images

f. Provides for multiple pages to be transferred from image storage to a users workstation at one time

g. Provides for printing images from storage or after viewing at workstation

h. Provides retrieval of an image from storage, revising on a workstation, and the retention of both the old image and the new image, or the deletion of one or both

i. Provides for accountability information to include as a minimum, the identification of image, identification of personnel who accessed the image, and the recording of date and time of changes made

j. Provides an automated means to assign retention schedules by date or frequency of use

k. Provides a means for image retrieval and printing during nonbusiness hours (overnight)

l. If Offeror proposes a separate stand-alone systems, provide a capability to merge images with data from C1-C6 and W1.

C.4.4.11 Statistics Software

The Offeror must provide statistics software that is capable of accessing sequential and indexed sequential files. The statistics software must also be capable of performing the following analyses:

a. Linear and nonlinear regressions
b. Time series analyses with seasonal adjustments
c. Measures of central tendency (mean, median)
d. Measures of dispersion (standard deviation, variance)
e. Correlation techniques
f. Curve fitting
g. Variance, co-variance matrix
h. Cross tabulations (chi square test)
i. Factor and discriminant analysis

The Statistics Software must also provide the capability to use log functions and the capability to run and solve simultaneous equations. In addition, a capability must be provided to build and store user generated commands for statistics.

C.4.4.12 Data/Document/File Transfer

The Offeror must provide an electronic data/document/file transfer capability to transfer data/documents/files between users in a LAN, between separate users and a remote location, between C1-C6 and a W1, and between C1-C6 and another C1-C6, and W1 to W1 (refer to Paragraph C.5.2, Communications Requirements). This transfer must be transparent to the user transmitting and the user receiving (i.e., no code or format conversion is necessary before or after transmission). At the user's option, all internal markers and/or formatting control characters must remain embedded in the data/document/file while being transmitted. It must be possible to transmit and to receive as if it were created locally by the recipient. This includes, for example, source/object code, word processing, electronic spreadsheet, DBMS files, etc.

C.4.5 Utilities

C.4.5.1 Sort/Merge

The Offeror must provide a standalone file sort/merge facility which provides at least the following capabilities:

a. Sort using a minimum of eight (8) keys, ascending or descending on each alphanumeric or numeric key

b. Sort on both alphanumeric and numeric (integer and floating point) elements

c. Support a key-length of at least 1 through 100 bytes

d. Sort using multiple keys in a combination of ascending and descending order

e. Accept magnetic/cartridge tape, direct-access storage data as input

f. Produce output to magnetic/cartridge tape, direct-access storage, terminal, or printer

g. Support fixed and variable length records (blocked and unblocked) with a maximum record size of no less than 1,000 characters

h. Be callable from host languages (COBOL, FORTRAN, BASIC) either through direct language statements or supported CALL statements.

C.4.5.2 Data Conversion

The Offeror must provide a method of converting data encoded in the native mode to ASCII and/or EBCDIC, ASCII and EBCDIC to the native mode, Baudot to ASCII and ASCII to Baudot, either as subroutines to be included in a program or as a standalone utility.

C.4.5.3 Tape Volume Utilities

Utilities must be provided to initialize tapes, list tape label information, search tape volumes for unrecoverable errors, and copy tape volumes. Utilities to copy tape volumes must be able to copy labelled and unlabelled volumes, multifile volumes, and multireel files. The utility must also provide for reading/writing of IBM standard labels and also non-labelled tapes.

C.4.5.4 DAS Volume Utilities

Utilities must be provided to initialize volumes, label and relabel volumes, list label information, search volumes for unrecoverable errors, scratch whole volumes, and copy volumes to tape or to other DAS volumes. In addition, it must be possible to assign alternate areas for damaged areas.

C.4.6 W1 Software Requirements

The Government will be using the W1 as a standalone in posts or locations as Attachment IX depicts. The Government has identified a number of functional requirements for W1 (PC) software. All W1 software proposed by the Offeror must meet the following minimum requirements:

a. Be commercially available

b. Be fully documented and supported

c. Provide easy to use prompts, menus, or HELP facilities

d. Support data exchange among other W1 software packages and C1 through C6 application programs

e. Be directly installable and executable on the Offeror's W1 by a non-technical user (i.e., the user will not have to make any system or program modifications to install or use the package)

f. Support W1 peripheral hardware specified in Subsection C.3 and Figure C-2.

C.4.6.1 Word Processing

The Offeror must propose a word processing program that enables users to create, edit, store and print; transfer these documents to the C1-C6 processors using communications links; and receive documents from the C1-C6 processors and edit them using the W1 word processing package. This W1 package must provide password protection on documents, prepare and edit all characters of the 95-character subset of FIPS PUB 1-2 and have the ability to use characters which when printed will be the special character YY. In the evaluation, additional points may be awarded for the number of the requirements provided that are contained in Paragraph C.4.4.5.

C.4.6.2 MS-DOS Operating System

The Offeror must propose and support the MS-DOS operating system versions 2.1, 3.0, and later.

C.4.6.3 W1 (PC) Software (Mandatory Option)

The Offeror must propose W1 (PC) software that meets the requirements outlined in C.4.6, C.4.6.1 and C.4.6.2 above. As a mandatory option, the Offeror must propose, as a minimum, software in the following categories:

a. Utility programs
b. Spreadsheets
c. Statistics
d. Graphics
e. Communications
f. Data base management systems
g. Office automation functions (calendar, mail, filing)
h. Basic

In the evaluation, additional points may be awarded for the provision of requirements contained in the respective paragraphs for the C1-C6 software. For each program listed within these categories, the Offeror must provide the following information:

a. Name of program
b. Copyright owner or licenser
c. Specific W1 configuration requirements
d. Program version or release supported by W1
e. Enhancements or limitations of version supported by W1

C.5 OPERATIONAL REQUIREMENTS

This Subsection describes the operational requirements the proposed system must meet.

C.5.1 Security

The Department of State requires system security and integrity features that are sufficiently comprehensive and of such degree of trust as to ensure the security of all information processed by the system. The definition and language of these requirements are taken from the DEPARTMENT OF DEFENSE TRUSTED COMPUTER SYSTEM EVALUATION CRITERIA, commonly known as and hereafter referred to as the ORANGE BOOK. Although the terminology contained herein is defined in this document and further defined in Attachment I of Section J, it will be of a definite advantage to the Offeror to be well acquainted with the language of the ORANGE BOOK.

Many of the mandatory requirements of this Subsection may be met by the Offeror if the proposed operating system meets the ORANGE BOOK C2 requirements; however, there are additional mandatory security requirements in Paragraph C.5.1.3.3 that are not addressed in the ORANGE BOOK. In view of this, meeting the C2 requirements does not satisfy all the mandatory requirements of this Subsection. The ultimate goal of the DOS is to have a B2 operating system, therefore, the Offeror must state a commitment to have a B2 certified operating system by year 4 of this contract.

The successful Contractor to this RFP must have, or obtain soon after award, a TOP SECRET Facility clearance. Attachment II provides the form DD254.

C.5.1.1 Summary of Requirements

C.5.1.1.1 Discretionary Access Control

The operating system shall define and control access between named users and named objects (e.g., files and programs) in the ADP system.

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The enforcement mechanism (e.g., self/group/public controls, access control lists) shall allow users to specify and control sharing of those objects by named individuals, or defined groups of individuals, or by both. The discretionary access control mechanism shall, either by explicit user action or by default, provide that objects are protected from unauthorized access.

C.5.1.1.2 Object Reuse

When a storage object is initially assigned, allocated, or reallocated to a subject from the operating system's pool of unused objects, the operating system shall assure that the object contains no data for which the subject is not authorized.

C.5.1.1.3 Identification and Authentication

The operating system shall require users to identify themselves to it before beginning to perform any other actions that the operating system is expected to mediate. Furthermore, the operating system shall use a protected mechanism (e.g., passwords) to authenticate the user's identity. The operating system shall protect authentication data so that it cannot be accessed by any unauthorized user. The operating system shall be able to enforce individual accountability by providing the capability to uniquely identify each individual ADP system user.

C.5.1.1.4 Audit

The operating system shall be able to create, maintain, and protect from modification or unauthorized access or destruction an audit trail of accesses to the objects it protects. The audit data shall be protected by the operating system so that read access to it is limited to those who are authorized for audit data.

C.5.1.1.5 System Architecture

The operating system shall maintain a domain for its own execution that protects it from external interference or tampering (e.g., by modification of its code or data structures). Resources controlled by the operating system may be a defined subset of the subjects and objects in the ADP system. The operating system shall isolate the resources to be protected so that they are subject to the access control and auditing requirements.

C.5.1.1.6 System Integrity

Hardware and/or software features shall be provided that can be used to periodically validate the correct operating of the on-site hardware and firmware elements of the operating system.

C.5.1.1.7 Security Testing

The security mechanisms of the ADP system shall be tested and found to work as claimed in the system documentation. Testing shall be done to assure that there are no cbvious ways for an unauthorized user to bypass or otherwise defeat the security protection mechanisms of the operating system.

C.5.1.1.8 Test Documentation

The system developer shall provide to the evaluators a document that describes the test plan and results of the security mechanisms' functional testing.

C.5.1.1.9 Documentation

Documentation shall be available that provides a description of the manufacturer's philosophy of protection and an explanation of how this philosophy is translated into the operating system. If the operating system is composed of distinct modules, the interfaces between these modules shall be described.

The Offerors shall provide for evaluation a manual for users which describes the protection mechanisms of the system to include guidelines in their use and how they interact with one another.

C.5.1.2 Definitions

C.5.1.2.1 Identification of Subjects and Objects

The elements and resources of the system are referenced as either subjects or objects. The following properties for subjects and objects shall be applicable:

An object shall be defined as a passive entity that contains or receives information. Software created entities such as files, directories and directory trees, as well as hardware resources such as disks, tape units, tapes, terminals, communication channels and printers shall be considered objects.

A subject shall be defined as an active entity such as an active terminal user, system administrator or a process.

Only subjects (e.g., active terminal users) and the operating system shall be able to perform read access or write access to objects. Every access to an object by a subject shall be controlled by the operating system.

The operating system shall be able to uniquely identify every subject and object under its control.

C.5.1.2.2 Discretionary Access Control

Access to objects by subjects shall be mediated in part by a discretionary access control mechanism within the operating system.

The operating system shall provide a capability which controls access between an object and users who are allowed to access the object on a need-to-know basis. This capability shall be applicable to all kinds of objects (e.g., files) for which the discretionary access control is required. The need-to-know access restriction shall be further divided into modes which distinguish between users who are allowed to only examine the object, users who are allowed to only append data to the object without examination.

C.5.1.2.3 System Flaws or Inconsistencies

Any system security flaw or inconsistency that is identified during testing of the system must be corrected by the vendor.

C.5.1.3 System Security Requirements

The following paragraphs contain the specifics, of system security requirements. For each requirement specified, there will be an indicator appended to the title line of the paragraph. The indicator defines whether the requirement is mandatory or desirable and the class of system to which the requirement is directed. The system classes are previously defined in this RFP. The indicators are the following:

MR = Mandatory Requirement
XR = No Requirement
W1 = PC or Microcomputer System
CA = All Systems, C1 through C6

For Example:

C.5.1.3.X Requirement Stated (W1/XR) (CA/MR)

This means that the content of paragraph C.5.1.3.X is a mandatory requirement of all 'C' class systems and that there is no requirement for the W1 system.

C.5.1.3.1 Design Requirements (W1/XR) (CA/MR)

There shall be a set of protection mechanisms within the operating system, including hardware, firmware and software, responsible for enforcing the security rules and practices required by the Department of State. The total protection mechanisms will allow the operating system to simultaneously process sensitive and classified information as defined by NSDD-145.

As a minimum, the operating system will have the following design requirements:

(1) Enforcement of individual accountability when information is accessed within the system.

(2) Secure access control mechanisms that are certifiable and will provide protection against

- unauthorized disclosure of information
- unauthorized alteration of information
- unauthorized alteration of the operating system

C.5.1.3.2 Operational Level Security Requirements (W1/XR) (CA/MR)

This section states the operational level security requirement that must be effected by the system. These requirements are concerned with how the system must operate to support the procedural security policies of the site where the system may be installed.

C.5.1.3.2.1 Discretionary Security (W1/XR) (CA/MR)

Discretionary security excludes classification levels and security compartments. Discretionary security consists of the determination of need-to-know access control for information to be examined or modified by a user.

The operating system shall enforce need-to-know access restrictions placed on information managed by the system.

C.5.1.3.2.2 Identification (W1/XR) (CA/MR)

The operating system shall mediate access to information managed by the system based on who is accessing the information and what classes of information the user is authorized to access. The identification and authorization data shall be used by the operating system to determine all access to information and the movement of information within the system. The user identification and authorization data of resources associated with the system shall be initially established and subsequently maintained by the system's Security Administrator.

C.5.1.3.2.3 Accountability (W1/XR) (CA/MR)

The operating system shall provide the capability to record all events affecting security. Selective auditing shall be provided. The capability to select the events to be recorded is necessary to minimize the expense of auditing and to allow efficient analysis.

C.5.1.3.2.4 Protection of the Operating System (W1/MR) (CA/MR)

The operating system shall be self protecting to prevent unauthorized on-line changes. All changes to the operating system and attempts to change the operating system shall be an event recorded for the audit trail.

C.5.1.3.3 Specific Security Requirements

The operating system will be responsible for providing the totality of protection for the information created, processed and stored in the system. The security requirements for the system are specified in terms of required function of the operating system.

C.5.1.3.3.1 Archived Information (W1/MR) (CA/MR)

When a document or file is archived off the system, any password attached to the document or file must convey with the archived information. Conversely, when archived documents or files are loaded onto the system, the password must convey to the system.

C.5.1.3.3.2 Interactive Terminals

C.5.1.3.3.2.1 Identification, Authentication, and Accountability of Users (WI/XR) (CA/MR)

In the use of an interactive terminal by a user, the operating system shall require the identification of the user before the user shall be able to perform any actions through the terminal. The operating system shall authenticate the identify of every user. The authentication data profile of each user shall include the unique identify of the user (e.g., user name and password), the user's authorized system access data, and other data which may be required to determine if the security attributes of an object intended to be accessed by the user are satisfiable.

Authentication data profiles shall be protected so that they cannot be acquired by unauthorized users. The operating system shall be able to enforce individual accountability by providing the capability to uniquely identify the active terminal users of the system. The operating system shall also provide the capability of associating this identify with all auditable actions of the active terminal users.

C.5.1.3.3.2.2 Terminal Time Out (WI/MR) (CA/MR)

Every interactive terminal will time out (i.e., disconnect from the system) after "n" minutes of inactivity on the terminal. Inactivity is defined as a lack of a key stroke during the time out interval. The time out interval "n" will be defined by a system parameter available only to the system administrator.

C.5.1.3.3.2.3 Terminal Lock-Out by Administrator (W1/XR) (CA/MR)

Any terminal on the system may be selectively locked-out (i.e., denied connection to the system) by the system administrator.

C.5.1.3.3.2.4 IPL or Power-Up State (W1/MR) (CA/MR)

An IPL or power-up of the system will result in reinitializing all terminals, peripheral devices and external connections. Power-up of the terminal will reinitialize the terminal. The initial state of a terminal will require a valid user logon to establish a session with the system.

C.5.1.3.3.2.5 Password Masking (W1/MR) (CA/MR)

Passwords or authenticators of any kind will not be displayed at terminals.

C.5.1.3.3.2.6 Logon Attempt Limit (W1/MR) (CA/MR)

The operating system will limit the number of logon attempts from any terminal. The number of attempts allowed is a system parameter under the control of the system administrator. All logon attempts are auditable events. If the number of attempts exceeds that allowed, the terminal will be locked out by the system and may be restored to activity only by an action of the system administrator. IPL or power up/down will not reinitialize the lock out state of any work station or terminal.

C.5.1.3.3.3 Management of Storage (W1/XR) (CA/MR)

Primary and secondary storage areas require unique identification so that compromise of information contained therein may be prevented.

The term storage object (e.g., files) shall refer to those objects which can potentially be "created and deleted" by subjects (e.g., users, system administrators). When a storage object is created, the extent (i.e., size) and type of the object shall be established. All storage areas allocated to the storage object shall be uniquely identifiable by the operating system. When storage areas are initially allocated to the storage object, the storage areas shall be purged of all previously recorded data (i.e. no residual data will remain in any storage object when assigned for re-use).

C.5.1.3.3.3.1 Security Erase (W1/MR) (CA/MR)

The system will provide a security erase feature under control of the system administrator that can be applied to a secondary storage object (e.g. hard disks or other storage media). This feature is for the purpose of purging information from a storage object for reasons of discretionary access control.

C.5.1.3.3.4 Management of Communication Over Networks (W1/XR) (CA/MR)

The operating system shall directly control all network interfaces, I/O drivers or protocols supported by the system. A network interface or a protocol shall be considered supported by the system if the system is cognizant of the data units (which include the protocol headers) transported via the use of the protocol, and treats the data units as objects.

A communication channel shall be viewed as a transportation medium between two (active) points or agencies which are uniquely addressable relative to the transportation medium. The two points or agencies shall be called correspondents. Normally, one of the correspondents is within a system and the other external to the system.

For each protocol supported by the system, the access control mechanism that establishes communication between correspondents shall be part of the operating system.

Every correspondent within the system for each supported protocol shall be associated with some active terminal user for auditing and accountability purposes.

C.5.1.3.3.5 Access Controls (W1/XR) (CA/MR)

The operating system shall continually enforce all access controls. A subject shall not be allowed access to an object unless all applicable access control rules are satisfied. Specific access controls are indicated in the following paragraphs.

C.5.1.3.3.5.1 Passwords or authenticators for purposes of logon will not be attached to a terminal. Authentication for logon is to only be assigned to users.

C.5.1.3.3.5.2 System utilities specifically and other software generally will be protected by discretionary access controls.

C.5.1.3.3.5.3 A system user will have no access to any object other than that granted specifically by the System Administrator. The null state of any category of a user profile grants no access privilege.

C.5.1.3.3.5.4 Passwords or authenticators used to gain system access will not be stored in the system in clear text. All logon passwords will be "one-way" encrypted by the system with an alogorithm that will be inspected, verified and approved by the Department of State.

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C.5.1.3.3.6 Working Environment (W1/XR) (CA/MR)

For each active terminal, the operating system shall control the working environment of the user (i.e., the processing environment of the user). The working environments of the active terminal users are within the system. The working environments shall be associated with active terminal users on a one to one basis only (i.e., for every active terminal user there is exactly one working environment). The system shall manage the association between an active terminal user and the working environment of the user.

Every working environment shall be mappable into one or more subjects (e.g., a working environment which consists of user processes). Two different working environments shall not be mappable into one subject (i.e., a subject of a working environment shall not be sharable between two working environments). The subjects of a working environment shall not exceed the access rights of the active terminal user associated with the working environment.

The operating system shall have a capability to isolate each working environment (e.g., through the provision of distinct address space(s)).

The operating system shall be able to uniquely identify all working environments of the user.

The operating system shall provide a feature to dissolve a working environment, disassociate address space(s) of the working environment, and remove each subject of the working environment.

C.5.1.3.3.7 Auditing (W1/XR) (CA/MR)

The operating system shall be able to create, maintain, and protect from modification or unauthorized access or destruction an audit trail of accesses to the objects.

The audit data shall be protected by the operating system so that read access (discretionary control) to it is limited to subjects who are authorized to examine audit data on a need to know basis.

Minimally, for each access, the audit record shall identify the active terminal user, type of event, success or failure of the event, and time and date of the event. For object access or deletion events, the name of the object, the object type shall be included in the audit record. The system administrator shall be able to selectively audit the actions of any one or more users based on individual identity or object security level. As a minimum, the following events shall be audited:

a. All access attempts to resources, whether or not the attempt is successful

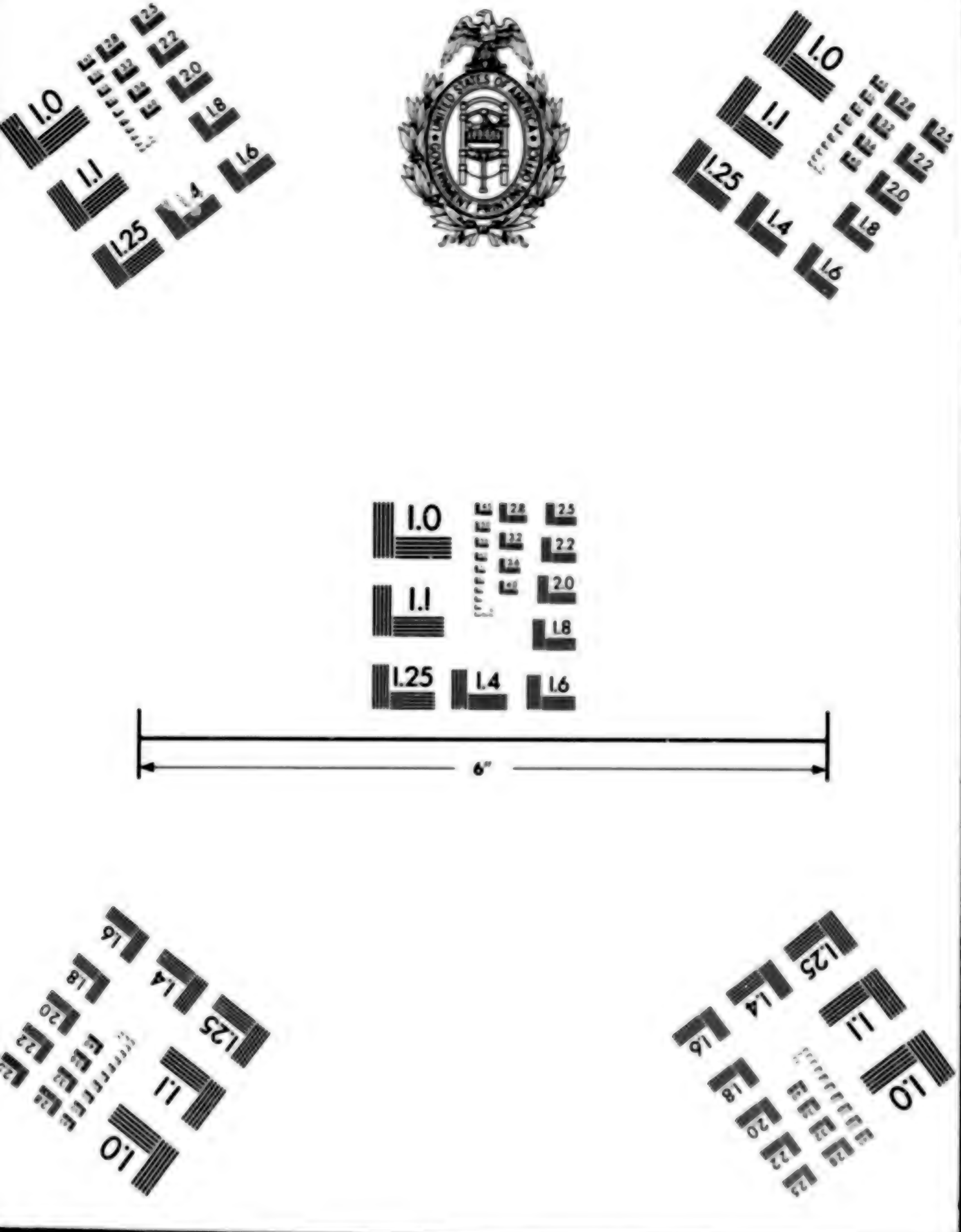
b. System faults and restarts,

c. Actions of system security administrators and operators,

d. Diagnostically detected errors,

e. User inactivity timeouts (the timeout threshold shall be adjustable by the system administrator).

f. Modification to users authentication profile,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g. Use of identification and authentication mechanisms (i.e., all logons and object access attempts),

h. Introduction of objects to subjects (e.g., file open, file close),

i. Creation and deletion of objects, and

j. User log off activity.

C.5.1.3.3.8 Security Administrative Functions (W1/XR) (CA/MR)

The security administrative functions provide necessary capability in the system to manage the operation of the operating system with proper security perspective, so that data is not compromised.

As a minimum, the following security related system administrator support features shall be provided.

a. Activate or deactivate optional security audit features.

b. Determine system configuration (e.g., terminals, peripherals, tape units, printers).

c. Establish, modify, activate and deactivate access authorizations of users (which are included in the user's authentication profile).

d. Enable and disable capabilities to establish user and network connections.

e. Audit security related activities.

f. Run periodic security confidence tests for hardware (off-line) to verify the functional operation of any hardware based security features.

g. Selectively enable and disable diagnostics.

h. Allow selective auditing of the actions of any users based upon individual identity.

C.5.1.4 Software Source Code

Software source code will be made available by the vendor for inspection by the Department of State. The Department of State will negotiate any required non-disclosure agreements.

C.5.1.4.1 Operating System (W1/MR) (CA/MR)

All software source code for the vendor operating system will be made available to the Department of State for inspection and verification of security features.

C.5.1.5 PCs as Terminals or Workstations (W1/MR)

Documentation relevant to PC architecture will be made available to third party vendors as necessary to develop supplemental security products needed to meet Department of State requirements.

C.5.1.6 Submission of System for Formal Product Evaluation

The winning vendor will be required to submit their system for "Formal Product Evaluation" with the DoD Computer Security Center at Fort Meade. Formal Product Evaluation is defined in the ORANGE BOOK, Appendix A, pages 87-88.

C.5.1.6.1

The vendor will submit the system within six (6) months of contract award for Formal Product Evaluation with a Candidate Class of C2.

C.5.1.6.2

The vendor will submit the system within twenty-four (24) months of contract award for Formal Product Evaluation with a Candidate Class of B1.

C.5.1.6.3

The vendor may optionally choose to submit directly for a Candidate Class of B1 and bypass the C2 certification. If this option is selected by the vendor, the vendor must then submit the system for Formal Product Evaluation with a Candidate Class of B1 within eighteen (18) months of contract award.

C.5.1.6.4

The vendor will submit the system for achieving Formal Product Evaluation at a B2 or higher level within 4 years (48 months) of contract award.

C.5.2 Communications Requirements

Accurate and timely transmission of information permits the Department of State and the other user agencies to operate effectively. The Offeror shall provide an information systems

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communications capability via any combination of hardware (including that described in Paragraph C.3.8) firmware, and/or systems software that satisfies the requirements detailed herein.

Incompatible connections (e.g., an asynchronous connection to a synchronous port) will be prevented, and a warning message will be given to the sender.

C.5.2.1 Networking

C.5.2.1.1 Current DOS Communications Network

The Department of State currently employs a world-wide communications network for interconnecting the Department with the various embassies and consulates throughout the world. This is accomplished by means of dedicated, point-to-point leased communications circuits operating synchronously and asynchronously at various data rates between 75 baud and 56K bps. As illustrated in Figure C.5.2.1, these communications requirements are satisfied using several protocols and formats for the transmission of all data and message traffic world-wide, with each user being connected to a multiplexer by means of a dedicated channel.

C.5.2.1.2 Planned DOS Telecommunications Network (DOSTN)

The C1-C6 processors and workstations described in this RFP shall be interconnected world-wide through the DOSTN by means of an X.25 communications network such that there is a virtual communications path from any processor or workstation to any other processor, workstation, or IBM host processor, as shown in Figure C.5.2.2. The communications architecture shall provide the capability for interfacing with long-haul Government and commercially leased

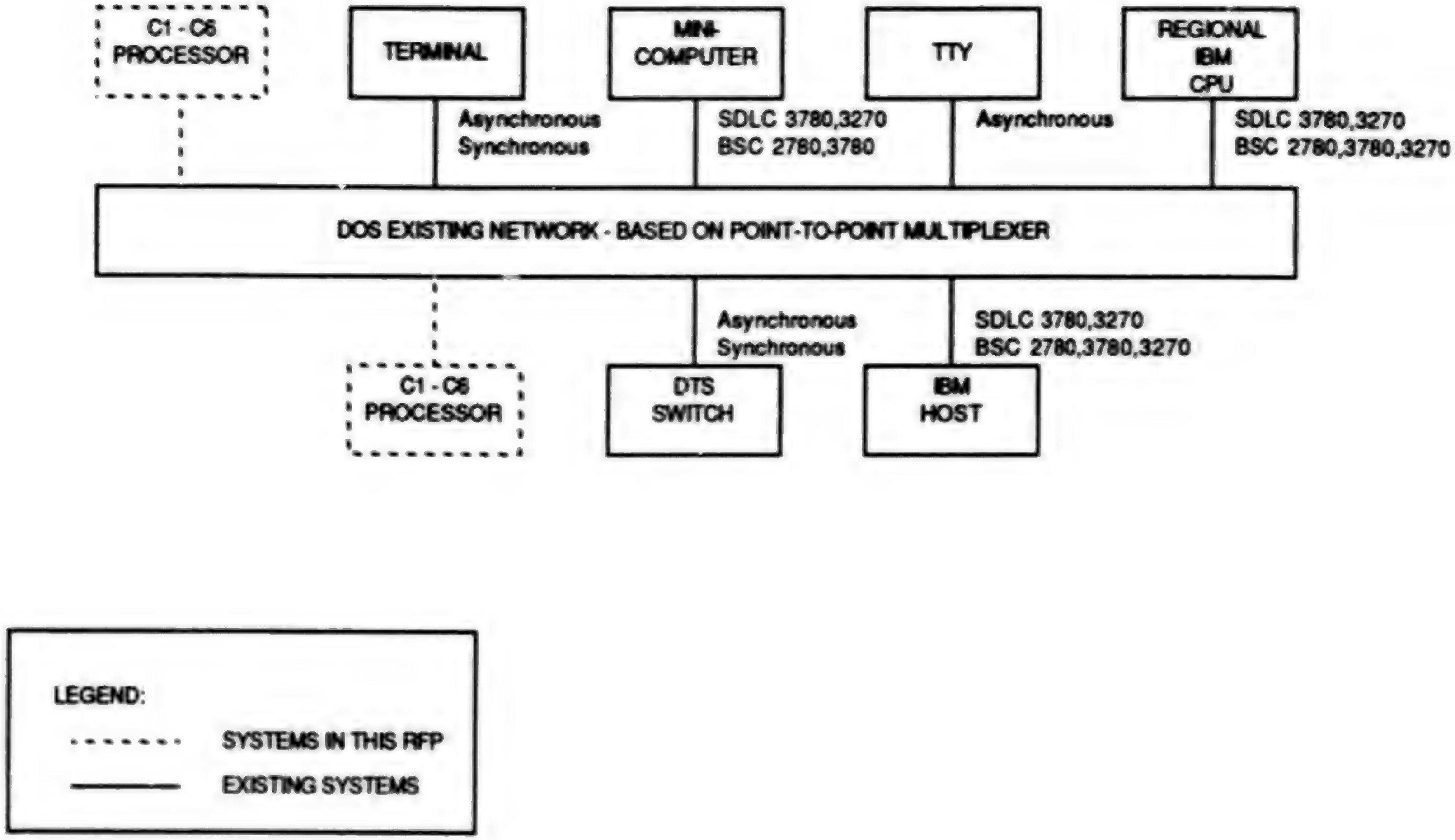

FIGURE C.5.2.1
DOS EXISTING NETWORK

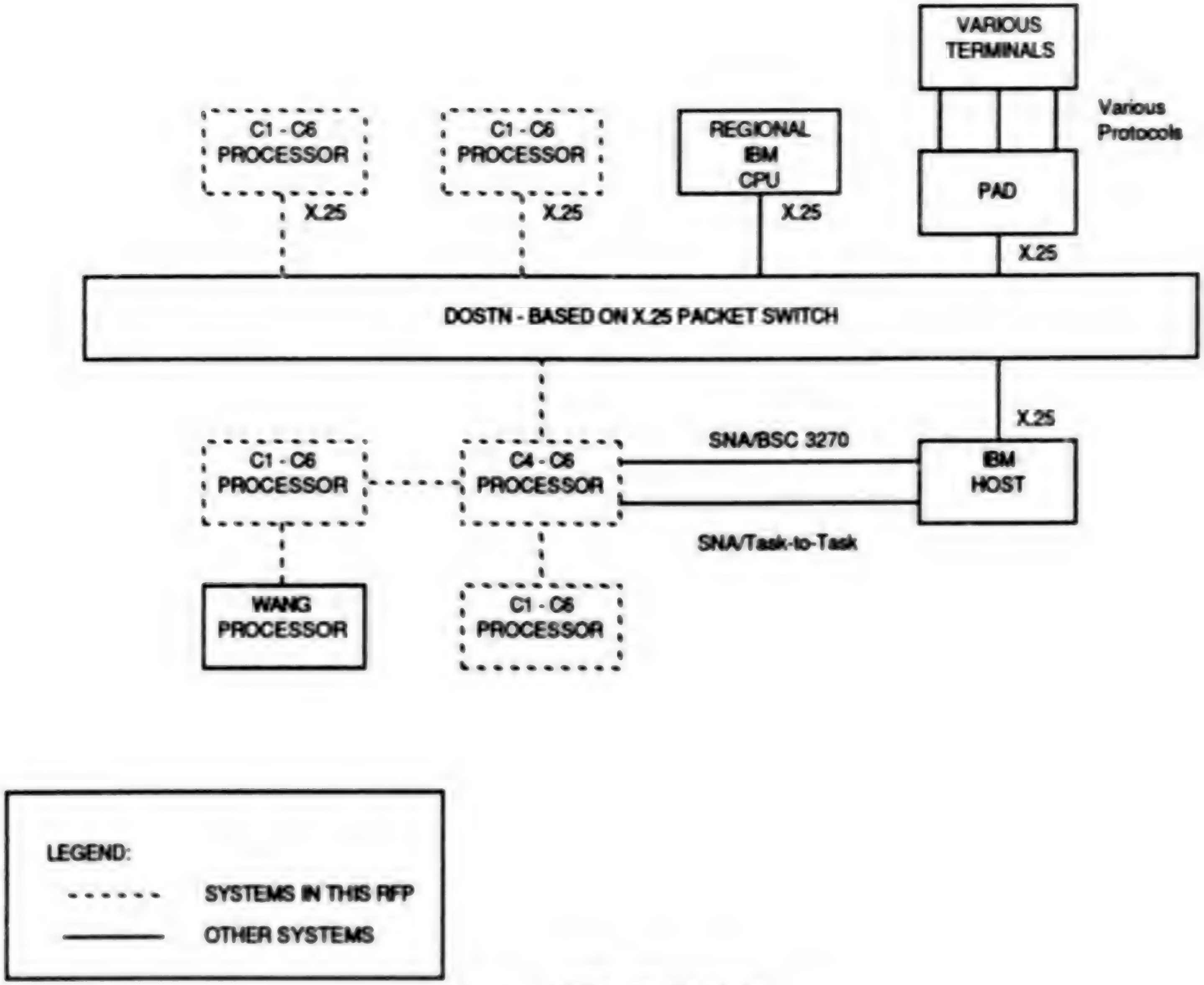

FIGURE C.5.2.2
DOSTN (PLANNED NETWORK)

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communications networks for transport services to achieve a uniform hierarchical system in which Department of State applications can be executed with the same user interface and communications software interface on any C1-C6 processor.

The communications architecture provided by the Offeror shall include the capability for interactive, batch, electronic mail traffic; and image, binary, and text file transfer over the required links. The communications network architecture shall provide end-to-end error detection and recovery, and multiple levels of transmission priority.

C.5.2.2 Local Communications Service

C.5.2.2.1 Dual Networks

There will be two (2) separate local networks of C1-C6 processors -- one classified and one unclassified. Both the classified and unclassified local processor networks shall interface with the DOSTN.

C.5.2.2.2 Interconnection Methods

To achieve this world-wide interconnectivity, while assuring adequate response time, the Offeror shall provide the three local configurations as detailed in Figures C.5.2.3, C.5.2.4 and C.5.2.5 for interconnecting the C1-C6 processors with DOSTN, other Government networks, and commercially leased networks.

The local communications configuration shall provide the following capabilities:

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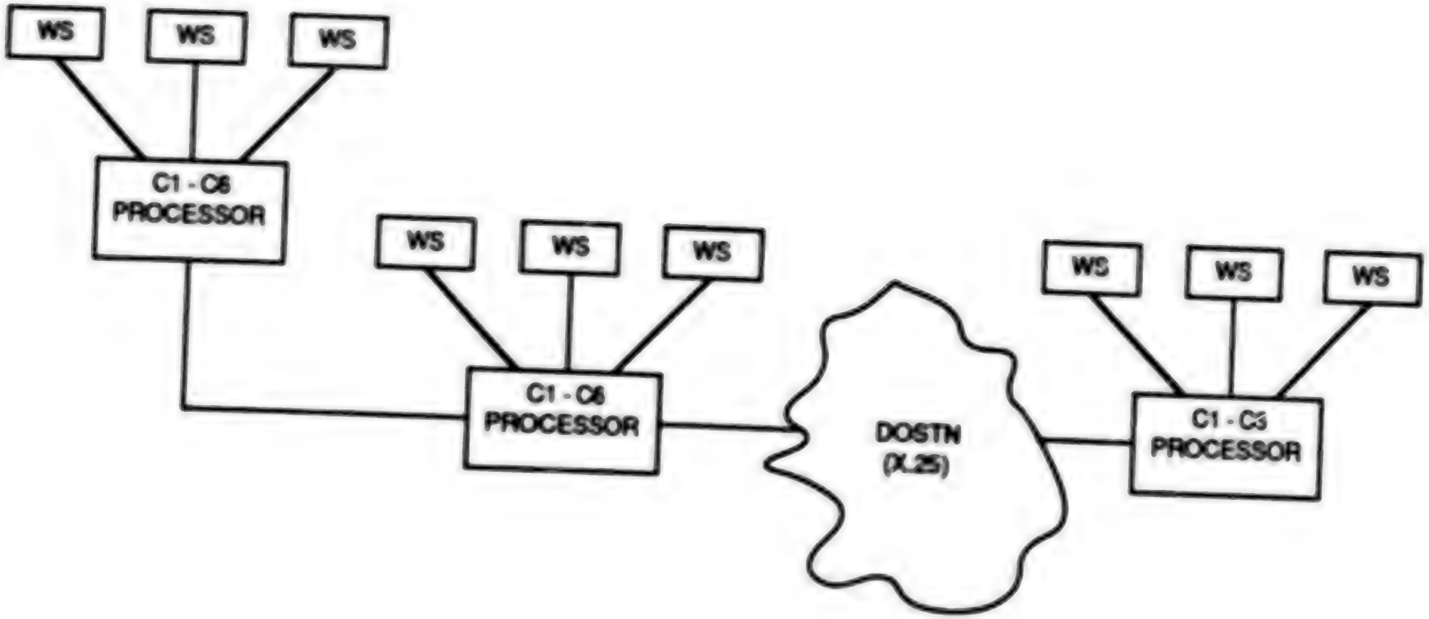

FIGURE C.5.2.3
PROCESSOR-TO-PROCESSOR

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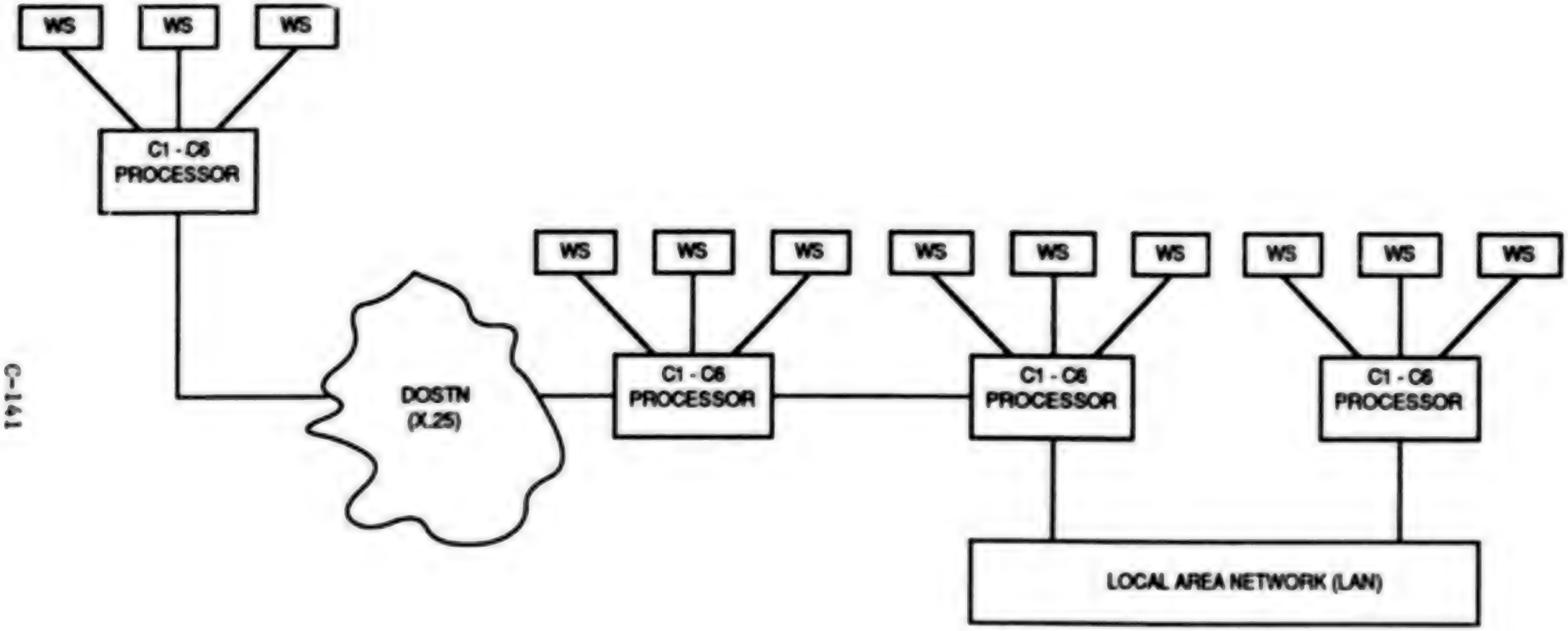

FIGURE C.5.2.4
PROCESSOR-TO-PROCESSOR AND LAN

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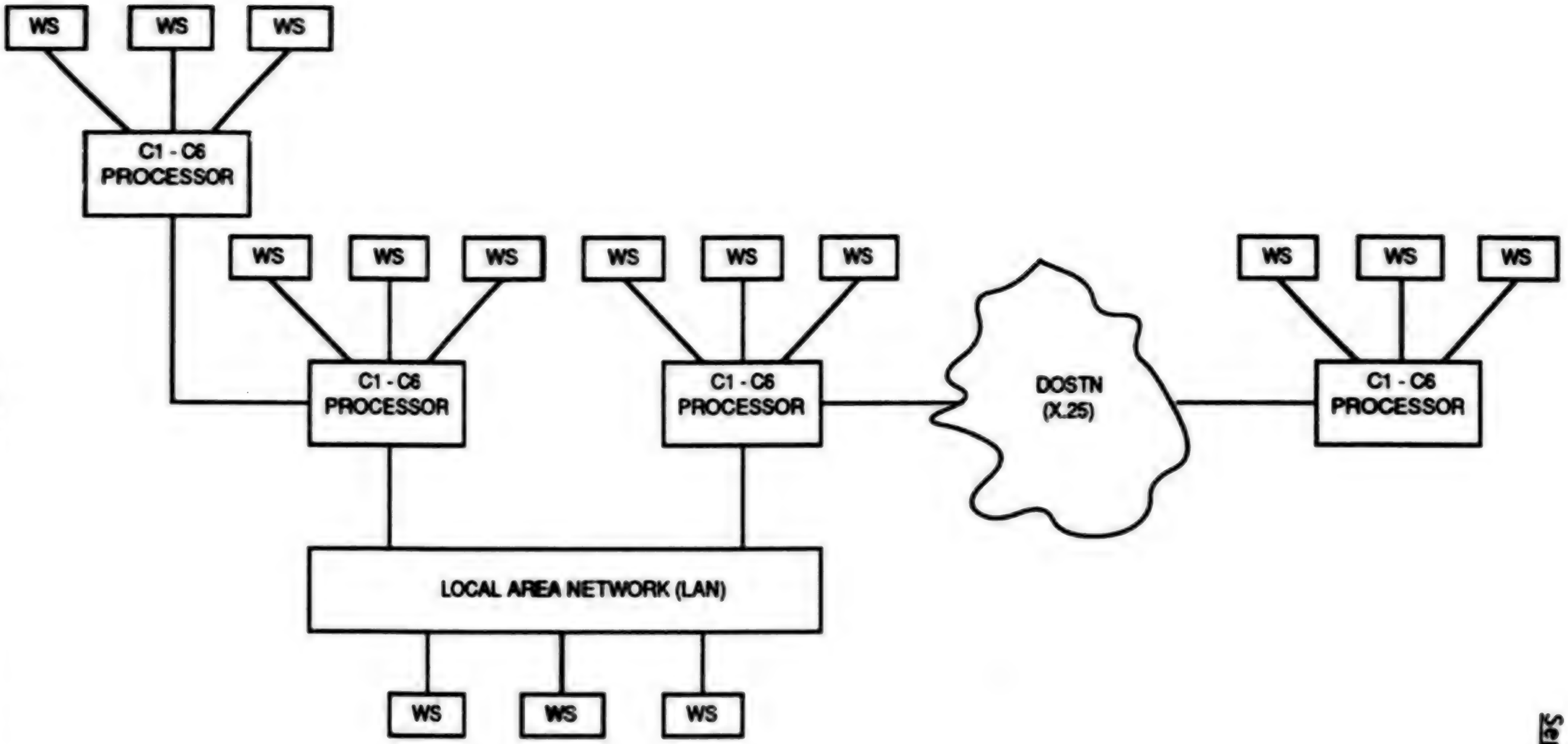

FIGURE C.5.2.5
PROCESSOR-TO-PROCESSOR/WORKSTATION AND LAN

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a. Permit any processor to be connected to any other processor directly, in "pass-through" mode with up to four (4) intermediate processors, through a LAN, and through the DOSTN;

b. Permit workstation-to-workstation and workstation-to-processor connectivity by means of the LAN, and in a "pass-through" mode between processors for both interactive and batch processing; and

c. Provide communications for the system monitor and control functions detailed in Paragraph C.5.2.5.

C.5.2.2.3 Local Communications Functions (Within Post or Bureau)

Local communications services for any given processor and its associated peripherals, connected directly or by means of a LAN, shall be capable of interactive and batch transaction processing. The following capabilities shall be supported:

a. Data/document (text)/file transfer between workstations and between workstation and processor.

b. Sharing of printer by workstations, using a shared print server device or print server function that enables queuing and routing of print files

c. Sharing of one or more disks by workstations, using a shared file server device or file server function which provides for the following capabilities:

  o Shared access (for reading and executing) to application software that resides in a single, central location (file directory, volume)

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- Automatic execution of a procedure at user log-in time that can place the user in a predefined, unique directory or subdirectory.

d. Electronic mail between workstations in accordance with Paragraph C.4.4.6.

e. Accessing files and running applications on another processor.

C.5.2.2.4 Interface with PBX

To minimize communication line costs within the Metropolitan Washington, D.C. area, the offeror shall interface with existing AT&T System 85 telephone exchanges through the System's Digital Terminal Data Module (DTDM), Trunk Data Module (TDM), and Processor Data Module (PDM). For proposal evaluation purposes the following shall be used:

- One asynchronous link at up to 19.2K bps
- One synchronous link at up to 19.2K bps initially and 56K or 64K bps within one year of contract award.

C.5.2.2.5 Configuration Size Requirements

The Offeror provided communications capability shall support interconnection for 3000 workstations on the classified network, and 4500 workstations on the unclassified network.

C.5.2.3 Local Area Network (LAN) (Mandatory Option)

The Offeror, as a mandatory option, shall provide a Local Area Network (LAN), to include all communications equipment and software necessary for implementation of the LAN configurations detailed in

Paragraph C.5.2.2.2 and in accordance with Paragraph C.3.9. The LANs shall provide all of the capabilities described in the Local Communications Functions in Paragraph C.5.2.2.3., above.

C.5.2.3.1 Local Area Network Protocols

The workstations, consisting of displays, printers, and image devices, and C1-C6 processors shall be connected to the LAN by means of IEEE LAN standards, or by the Offeror's proprietary interfaces and protocols. If proprietary interfaces and protocols are proposed, the Offeror shall provide all necessary information to DOS, or a third party acting as an agent of DOS, to allow the development of specialized functions. During the proposed evaluation process, the Government will impose IEEE LAN standards if the Offeror's limitations on use of this information is too restrictive.

C.5.2.3.2 Concurrency

The LAN shall support the concurrent use of workstations as specified for LAN 1 through LAN 3 in Paragraph C.3.9, and the services described in Paragraph C.5.2.2.3.

C.5.2.3.3 LAN Security Provisions

The Department of State plans to install a secure LAN in order to reduce installation costs and increase system security. The processor and peripheral interfaces shall be designed to accept a security module. The Offeror shall provide an encryption process certified in accordance with the classified National Security Agency (NSA) LAN functional security requirements.

The Offeror shall be, at the time of award of any contract resulting from this RFP, a participant in the NSA Commercial COMSEC Endorsement Program (CCEP). For information on the procedures and requirements for participation in the CCEP, offerors shall contact:

Director
National Security Agency
ATTN: S3
9800 Savage Road
Fort George G. Meade, MD 20755-6000
Telephone: (301) 688-6581

Alternatively, proposals will be considered from Offerors who have a business relationship with a NSA CCEP participant so long as the offeror demonstrates that all restrictions relative to access to COMSEC information will be strictly observed.

Secure LAN protocol software shall be designed such that certain COMSEC functions can be added with minimal impact. As depicted in the NSA LAN functional security requirements, the protocol software shall be capable of including a technique for the request and transfer, i.e., management and distribution, of key variables, and for the validation and verification of message sources.

C.5.2.3.4 LAN Performance Requirements

The LAN provided shall support the concurrent use of workstations and processors performing all of the required communications functions. The LAN provided, configured with 250 devices, shall be capable of transferring non-interactive traffic at a rate of one (1) million bps concurrently with 20 interactive users, each simultaneously sending a 1024-character message, with no more than a one (1) second transmission delay for the interactive traffic.

C.5.2.3.5 LAN Engineering Study

The successful Offeror to this RFP will be tasked to perform an engineering study prior to the implementation of each Local Area Network herein described. Upon acceptance by DOS of the engineering study, the Contractor will implement the resulting LAN on a Task Order basis. In their proposals, Offerors are to describe, at a minimum, their approach to the following tasks for the conduct of the engineering study:

a. Perform a requirements analysis (to include locations, workloads, devices and interfaces to be supported).

b. Develop the topology or network architecture to meet the requirements resulting from the analysis in item a. above.

c. Specify a transmission medium to meet the distance and transmission speed requirements.

d. Optimize file sharing, printer sharing, and database retrievals.

e. Verify that the operating environment requirements can be met by the given LAN configuration and media.

f. Test that security requirements have been met.

g. Test intra-LAN data communications and external data communications.

h. Test the interface to the PABX.

i. Conduct simulated-data, parameter-driven, full-volume tests.

j. Develop procedures to monitor for status and statistics on the LAN in a manner that is integrated with the System Monitoring and Control functions described in Paragraph C.5.2.5.

k. Develop procedures to control the LAN, both local LANs and remote LANs, as specified in Paragraphs C.3.9 and C.5.2.5.

C.5.2.4 DOSTN Communications Service and External Communication Interfaces

C.5.2.4.1 DOSTN Communications Services

The DOSTN is not part of this RFP and should be considered as Government-provided. The DOSTN will be phased in over a five-year period requiring the C1-C6 processors to interface with both the existing network and the DOSTN during transition, as previously illustrated in Figures C.5.2.1 and C.5.2.2.

The DOSTN is planned to be implemented using the International Standards Organization (ISO) definition of the X.25 protocol. The C1-C6 processors shall interface to the DOSTN using the X.25 protocol.

Since the X.25 protocol encompasses only the services of the lower layers of the ISO Reference Model, the Offeror shall provide a layered network architecture providing the upper levels of the model to interface with the X.25 levels three and below of the DOSTN.

C.5.2.4.2 External Interfaces (Mandatory Option)

The C1-C6 processors shall support the following interfaces and perform all necessary protocol conversion between them.

a. An X.25 interface to the DOSTN. Line speeds are 9.6K to 64K bps.

b. An IBM 3274 interface to the existing IBM host. On this interface, the C1-C6 processor shall emulate one or more 3278 terminals to link workstations to the IBM host in an SNA environment. Line speed is up to 9600 bps.

c. An interface to the DOD DDN network using the TCP/IP protocols. Line speeds are up to 9600 bps. This capability shall be provided within one year of contract award.

d. An interface for asynchronous TTY and DEC VT100 terminal emulation capability on the C1-C6 processor. Line speeds are 75 to 9600 bps.

e. An interface for 83B3 multipoint link. Line speed is 75 bps.

f. An interface for SNA task-to-task communications with the existing IBM host for document and file transfer. This requirement may be implemented by IBM's SNA LU 6.2 or a similar capability that allows document transfer and queuing on both the IBM host and the C1-C6 processor. Line speeds are up to 19.2K bps.

g. Interfaces for IBM SDLC 3780 and interactive 3270 and IBM BSC 2780, 3780, and interactive 3270.

The communications shall interface with IBM SNA and provide bi-directional exchange of content-revisable documents that comply with IBM's Document Interchange Architecture (DIA) and Document Content Architecture (DCA), SNADS (SNA Distribution Services), and LU 6.2 (Advanced program-to-program communications) and PU 2.1.

The following terminal types shall be emulated by the C1-C6 processors:

a. IBM SNA 3274 controller using SNA/SDLC

b. IBM 3770 terminal using RJE, SDLC communications

c. TTY 33/35

d. VT-100

Figure C.5.2.2 (shown previously) illustrates the configuration of C1-C6 processors communication interfaces with DOSTN and IBM host processor.

C.5.2.4.3 File Transfer Requirements

Paragraph C.4.4.12 describes the software requirements for data/file/document (text) transfer. This section sets forth the following additional requirements:

a. Provide for transfer of word processing document (text), print files, binary files, image files, and all files produced by the C1-C6 processors and the workstations.

b. Provide for "pass-through" access of processors in a mode that is transparent to the users and does not require operator attendance.

c. Provide for automatic restart of the transfer process in the event of line failure, i.e., restart at point, or record, not acknowledged.

d. Provide confirmation to the sender program of a successful or unsuccessful transmission.

e. Provide data compression on text files, word processing files, and binary files.

f. Provide store/forward queuing of data on "pass-through" intermediate processors when the target processor cannot receive the data.

g. Provide for automatic restarting of transmission of queued data by the intermediate processor when the target processor is again able to receive data.

h. Provide for automatic alternate routing of data when an intermediate processor or line has failed.

i. Provide multiple levels of priorities within the required three classes of traffic (interactive, mail, files); allow low priority transmissions to be interrupted and automatically restarted in order to transmit higher priority traffic.

C.5.2.5 System Monitor and Control

The Offeror shall provide for central monitoring and control of the local communications networks world-wide, accessing other regions via DOSTN. The System Monitor/Controller shall be an off-the-shelf product. This product shall implement the data gathering and diagnostic functions of the System Monitor/Controller on any C1 through C6 processor to forward statistics to the Central System Monitor/Controller, called the System Control Center, which shall be operated at Main State.

The offeror shall provide the hardware and software for the monitor and control of all C1-C6 processors, workstations, LANs, as well as all external interfaces.

The System Monitor/Controller will initially be centrally operated but shall be capable of being decentralized, allowing all functions to be operated and controlled in the regional areas for that region. Any C4-C6 model processors shall be capable of operating as the System Control Center.

C.5.2.5.1 Electronic Mail Address Control

The System Monitor/Controller function shall include the following:

a. The ability to generate master directories of users and organizations for the electronic mail. This directory shall be organized to allow area managers or individual system managers to maintain subsets of the full directory. DOS anticipates the total directory size to grow to about 25,000 names.

b. The ability to periodically synchronize automatically all of these directory subsets and copies over all System Monitor/Controllers.

C.5.2.5.2 Remote Control

The System Monitor/Controller function shall include:

a. The ability to access and perform all operator functions, including initialization, on C1-C6 processors from any C1-C6 processor in the network by means of a remote log-on by the network manager at the System Control Center or regional areas.

b. The ability to change communication path routing within any C1-C6 processor in the network, including routing within any local area network.

C.5.2.5.3 Statistics Gathering

The System Monitor/Controller function shall automatically collect and store for later analysis statistical data on utilization of any C1-C6 processor within the DOS network. These data may be logged on processors and transmitted in batches to the System Control Center. The data gathering function shall be performed continuously in real time by the affected processor. The statistical data shall be forwarded to the regional System Monitor/Controller or Central System Monitor/Controller in the following manners:

- Automatically, at user defined intervals of time, which can be no more often than once every 1 minute
- Upon user demand by the System Monitor/Controller(s).

The System Monitor/Controller function shall include:

a. The ability to monitor utilization on the C1-C6 processor system interface to the IBM host processor.

b. Remote access and file transfer of data specified in Paragraph C.4.1.1.9b, Diagnostic Programs; Paragraph C.4.1.1.10, Resource Monitoring; and Paragraph C.4.1.1.11, System Resource Accountability.

c. Statistical information including:

   - Site ID
   - System ID
   - System Type

- Device Interrupts
- Communications line characteristics, such as line speeds and protocols
- Traffic counts and message sizes
- "Pass-through" traffic counts and message sizes
- Remote log-on counts
- Communications errors by line per unit of time
- Operational or non-operational state of the processor or workstation.

Each of the foregoing data shall be transmitted and stored annotated with date/time stamp. Time increments shall be setable by the network manager.

C.5.2.5.4 Operation of the System Monitor/Controller

The System Monitor/Controller function shall include:

a. The ability to be initiated and terminated either automatically or by the user (network manager)

b. The ability for the Central System Monitor/Controller to become inoperable without adversely affecting any other System Monitor/Controller(s)

c. The ability to transmit and receive test messages over individual lines to aid in fault isolation, and the ability to initiate the test message transmission/reception at a remote location

d. The ability to acknowledge the successful or unsuccessful receipt of transmissions to the System Monitor/Controller

e. The ability to log with date/time stamp all inbound and outbound transmissions of the System Monitor/Controller.

C.5.2.5.5 Reporting

The System Monitor/Controller function shall include:

a. Tools for data reduction and reporting by site, type, and time, including graphing capability

b. Reporting tools with capability of producing user defined reports including:

   o Cumulative processor downtime

   o Response time analysis by processor and workstation

   o Usage by various type of workstation, i.e., interactive for CPU versus "pass-through" traffic by time of day and location

   o Distribution of traffic by time-of-day and location

   o Peak volume statistics by line and time-of-day and location

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c. The ability for all data collected by the System Monitor/Controller to be input to the Offeror's database system with minimal user conversion(s).

C.5.2.5.6 Software Distribution and Control

The System Monitor/Controller function shall include:

a. The ability to down-line load a suite of programs, which may include the operating system and communications software, to a remote C1-C6 processor; and the ability to store these programs on the remote processor in a configuration management system requiring an operator command or a specific event to invoke the programs.

b. The ability to down-line load the operating system and communications software, as described in Item a. above, provided within one year of contract award.

c. The provision for a software configuration management system that allows the user (network manager) to establish a software baseline and to aid in its controlled distribution.

C.5.3 System Performance

System performance processing requirements shall encompass four processing categories:

a. C-System (CPU) processing/performance requirements
b. LAN and Passthrough processing/performance requirements
c. Peripheral performance requirements
d. Fiber Optics System requirements

All response times and processing requirements in all four categories must be met while peak workload is being generated by the peak number of concurrent users for each C-system as defined below:

C1 - Supports 1 to 8 concurrent users
C2 - Supports 4 to 16 concurrent users
C3 - Supports 12 to 32 concurrent users
C4 - Supports 24 to 64 concurrent users
C5 - Supports 48 to 128 concurrent users
C6 - Supports 96 to 192 concurrent users

Response time and processing requirements for both categories are presented in the following paragraphs

C.5.3.1 C-System (CPU) Performance/Response Time Requirements

A workload analysis methodology was developed to provide a representative assessment of the workload requirements of each C-System. The workload data derived from this analysis is provided in Section J, Attachment III, and it provides the basis for the benchmark performance requirements.

Based on analysis of the collected workload data, five categories were identified into which virtually all processing requirements could be placed. The five categories are defined as follows:

Word Processing (WP)
Database Oriented (DB)
FAIS Oriented (FAIS)
Interactive (I/A)
Program Development (PD)

To establish performance and response time parameters for each transaction in each workload category, a transaction scenario was developed for each transaction. The transaction scenario defines a representative processing environment (e.g., file sizes, record lengths) under which response time requirements can be defined. The following paragraphs describe the transaction scenarios for each workload category.

WORD PROCESSING - Word processing has five transaction types:

1. Create: Create will cause the creation of a document of alpha characters one (1) page in length.

2. Modify: Modify will cause an existing document to be modified either by deleting lines or characters, or by inserting/changing lines or characters.

3. Delete: Delete will cause the deletion of a document from the document library.

4. Print: Print a document.

5. Copy: Copy an existing document and re-file the same as a new document for later modifications.

DATABASE - The database shall consist of 10,000 records, with a record length of 100 characters. Database has five transaction types:

1. Create: Create a new record and create all the necessary pointers required to maintain the record within the Database.

2. Modify: Modify an existing data record by changing the data.

3. Delete: Delete a data record from the database and remove any and all pointers as specified.

4. Query: Query, retrieve data, and prepare same for display to the terminal and/or file for later printing.

5. Print: Print an existing query report file or the current query data formatted as defined by the user.

FAIS - FAIS has eleven (11) transaction types, many of which are similar to Word Processing and Database transactions; however, the volume of data and the size of the documents involved are different. FAIS has two basic types of documents, one is a Word-Processing Document comprised of 13,720 characters per document on the average, and the other is an Image Document which is comprised of 180,450 bytes of information. Both types of documents are used within the Database and are treated the same. The eleven transaction types are:

1. Create: Create a new Word-Processing Document or Image Document.

2. Modify: Modify existing documents. The modifications include inserting/changing characters or lines and deleting characters or lines.

3. Delete: Delete documents from the database document library.

4. Query: Review documents.

5. Print: Print all documents created along with the documents reviewed from other systems via the remote network.

6. Copy: Copy an existing document and re-file the same as a new document for later modifications.

7. Send/Receive:

   Send and receive activity will be that of Electronic Mail, both Intra-System and Remote system activity.

8. Index/Store:

   Store the documents for later retrieval by different types of indexes specified in the FAIS design.

9. Imaging:

   Digitizing a picture or document. There will be no modify type activity to an Image type document.

10. Clearance:

    The process of notifying another person that there is a document to be reviewed via Electronic Mail and the reviewer, 50-60% of the time, modifying the document, and informing the originator that the review is complete by return Electronic Mail. Vertical Clearance will reference a higher level of authority whereas the Horizontal clearance refers to a similar level sign-off.

11. Electronic Mail:

    The process of sending and receiving information (data, program source or object, etc.) from one user to another user. The users may be connected to the same or different host computer system.

INTERACTIVE - Interactive processing involves the expected types of workload involving the user being at a terminal performing application oriented activities. The five (5) application-oriented transaction types are:

1. Create: Create a data item or record.
2. Modify: Modify an existing data item or record.
3. Delete: Delete an existing data item or record.
4. Query: Query the data base and formulate a report for file storage and/or terminal display and/or printing.
5. Print: Print a report from the retrieved data items.

PROGRAM DEVELOPMENT - Program Development involves the type of activity expected when program development is completed via on-line terminals. The source code is COBOL and the program size is 3,000 records. The five (5) transaction types included in this type of activity are:

1. Create: Create a new COBOL Program.
2. Modify: Modify an existing program.
3. Delete: Delete an existing Program Source File.
4. Print: Print an existing Program Source File.
5. Compile: Compile the specified COBOL Program.

The response times presented in Figure C.5.3-1 are the minimum required to processes the transactions for each workload category. All response time requirements must be met while peak workload is being generated by the peak number of concurrent users for each C-system.

C.5.3.2 LAN and Pass-Through Processing/Performance Requirements

In Department of State inter-system activity, there are two methods available to accomplish the interconnection of two or more communicating systems or devices.

a. Local Area Network (LAN)
b. Pass-Through

C.5.3.2.1 LAN

A Local Area Network (LAN) is a high-volume data transmission facility connecting a number of communicating devices (processors, printers, mass storage units, etc..) within a single building or campus of buildings. The following paragraphs describe a representative LAN environment and the response time requirements associated with the environment.

A LAN configuration for throughput purposes consists of two processors (A,B) and one PC (W1) connected to a LAN facility. Processors A and B will be C-3, Year 5 processors with a simulated load of 50% of the peak load as defined in Section J, Attachment III of this Solicitation. LAN activity is characterized by the following transactions:

- Log-on, Log-off
- File Transfer (540,672 character messages)
- Interactive Traffic (1,024 character messages)

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C-SYSTEM TRANSACTION RESPONSE TIME MATRIX
(Response time reported in seconds)

TRANSACTION	WP	DB	FAIS	I/A	PD
CREATE	2.5	3.0	3.0	2.5	2.5
MODIFY	2.5	3.0	3.0	2.5	2.5
DELETE	2.5	3.0	3.0	2.5	2.5
QUERY		5.0	5.0	3.0	
PRINT	2.5	3.0	3.0	2.5	2.5
COPY	4.0		5.0		
COMPILE					45.0
SEND / RCV			3.0		
INDEX / STORE			5.0		
IMAGING			5.0		
ELEC MAIL			5.0		
CLEARANCE			3.0		

Figure C.5.3-1

- Image Retrieval
- Send to Printer

Based upon the LAN configuration and environment described above, the following are the minimum performance and response time requirements.

Response Time Requirements

- The following total response times are required 95% of the time:

Transaction	Total Response Time
1. File Transfer (540,672 characters)	Within LAN: 3.00 minutes (Includes disk access)
2. Interactive Traffic (1,024 characters)	Priority traffic: 1 second for first bit

Throughput Requirements	Volume
File Transfer	20 transfers per system per 50 minutes
Interactive Traffic	38 transfers per minute, per system

C.5.3.2.2 Pass-Through

"Pass-Through" mode is used when three or more processors (A,B,C, etc.) are connected in series using point-to-point connectivity. An intermediate processor in the series must provide a "Pass-Through" service if it physically is connected between processors attempting to communicate. The following paragraphs describe a representative "Pass-Through" environment and the response time requirements associated with the environment.

Representative Pass-Through Environment

"Pass-Through" configuration for throughput purposes consists of three processors (A,B, and C) connected in series. The line speed for the point-to-point connection is 56 Kbps (56,000 bps). Intermediate processor B is a C-4, Year 5 system with a simulated workload of 75% of the normal System Under Test (SUT) load. Systems A and C will be C-3, Year 5 systems with a simulated load of 50% of the peak load as defined in Section J, Attachment III of this Solicitation. The "Pass-Through" is conducted by having 21 terminals on each C-3 system (system A and system C) perform "Pass-Through" functions such as "File Transfers" and "Interactive Operations."

- File Transfer - The transfer of three concatenated Image files totaling 540,672 bytes of data. One file transfer will go from processor A to processor C and one file transfer will go from processor C to processor A. Following the completion of a file transfer, a 30 second delay will be executed.

- Interactive Operation - A terminal on processor A and a terminal on processor C engaged in interactive message transmission and receipt of 1,024 character messages. A terminal on processor A will send a message to processor C, and a terminal on processor C will send a message to processor A. This sequence is repeated or re-initiated every 30 seconds.

Based upon the Pass-Through configuration and environment described above, the following are the minimum throughput and response time requirements.

Throughput Requirements

- File Transfer - 20 file transfers per system per 50 minutes.
- Interactive Operation - 38 messages per minute per system.

Response Time Requirements

o File Transfer	4.87 minutes (must receive the first bit of data within 1 second of the transmit time).
o Interactive Operation	1 second for first bit of data for priority.

C.5.3.2.3 LAN and Pass-Through Performance Requirements

Based upon the LAN (paragraph C.5.3.2.1) and "Pass-Through" (paragraph C.5.3.2.1) configuration and environment descriptions, the following are the minimum performance LAN and Pass-Through performance requirements.

Performance Requirements:

o AVAILABILITY	User can access and use the LAN and Pass-Through facilities 95% of normal work day.
o RELIABILITY	The LAN and Pass-Through facilities must meet the 95% availability requirement 100% of the Principal Period of Maintenance hours and 95% of the other hours.

- ACCESSIBILITY The Level of complexity involved in learning how to use LAN and Pass-Through facilities must be relatively simple so that non-technical personnel can easily learn and use the system.

- CONCURRENCY The LAN and Pass-Through facilities must allow all devices to conduct data transfer activities, while controlling data integrity when multiple users are simultaneously accessing a single database.

- ERROR RATES The accuracy of what is received by the destination node compared to what was sent by the source node. The bit error rate shall not exceed 10^{-12} for distances up to 1 kilometer, and shall do so without requiring signal generation or adjustments and/or modifications to any system component.

C.5.3.3 Peripheral Performance Requirements

All peripherals must be able to perform as required in section C.3 of this document. The peripherals proposed by the vendor must be able to perform up to specified standards while peak workload is being generated by the peak number of concurrent users for each C-system.

C.5.3.4 Fiber Optics System Requirements

The bit error rate for the system shall not exceed 10^{-9} for distances up to one (1) kilometer, and shall do so without requiring signal regeneration or adjustments and/or modifications to any system component. In addition, the Fiber Optic System shall maintain the

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performance levels for ten (10) 90 bends of 2" radius, including a maximum of two (2) butt splices per fiber optic link, e.g., two (2) butt splices between one (1) transmit/receive link and two (2) butt splices between its corresponding receive/transmit link.

C.5.4 Compliance with Federal Information Processing and Federal Telecommunications Standards

The proposed equipment and software shall conform to the specifications defined in relevant Federal Information Processing Standards Publications (FIPS PUBS) and Federal Telecommunications Standards (FED-STD) as presented in Attachment VI.

C.5.5 Configuration Management

To control the architectures of the range of equipment and software throughout the contract life, the Department of State (DOS) will establish a Configuration Management Program (CMP). The successful Offeror to this RFP will have certain responsibilities in this program, and Attachment VII of Section J presents these requirements. Offerors must provide a detailed description of how those responsibilities will be fulfilled.

C.6 TERMS OF USE

The Government requires unlimited use of any equipment, software, and documentation acquired as a result of this solicitation.

C.7 SCOPE OF CONTRACT

The contractor shall furnish, as required, the equipment, software, transportation, documentation, training, maintenance, conversion and other contractor support services required for the installation and support of all items supplied under this contract. Such equipment, software, transportation, documentation, training, maintenance, conversion and other contractor support services shall be supplied in conformance with the terms and conditions of this contract.

C.8 SUPPLIES

Rental and maintenance charges are not to include consumable operational supplies, e.g., paper, tape, carbon, etc. Consumable supplies used by the Government shall conform to the Contractor's technical specifications or equivalent.

C.9 NEW MATERIAL

All equipment delivered in response to this solicitation shall be new or newly remanufactured equipment. Newly remanufactured equipment must be of the same type and model, with the same performance, reliability and warranties as the new equipment delivered in response to this Solicitation.

C.10 AVAILABILITY OF EQUIPMENT AND SOFTWARE

The equipment and software proposed in response to this Solicitation Document must be in current production at the time of the Performance Validation (Live Test Demonstration), and be capable of a demonstration as specified in Section M. The TEMPEST equipment, as stated in Paragraph C.3.11, has a different, special requirement.

C.11 EXISTING FACILITIES

The space available, power supply and environmental (temperature and humidity) controls vary by location. For the equipment that must be in a controlled environment, i.e., CPU, disk drives, tape drives, and high-speed printers of the typical C1-C6 configuration (refer to Figure C-2), the following environment will be available or provided:

	Square Footage	KVA (Runtime)	BTU/HR	Relative Humidity
C1	150	2.95	Office Environment	
C2	150	2.95	Office Environment	
C3	200	2.95	9,055	50% ± 5
C4	290	5.72	17,075	50% ± 5
C5	315	7.82	23,155	50% ± 5
C6	1000	32.86	96,083	50% ± 5

The W1-W3 workstations must be capable of being placed on a desktop that is not more than 36 inches by 26 inches. The workstations and the C1-C2 configurations must operate in an ambient room temperature between 60 degrees Fahrenheit and 90 degrees Fahrenheit, and at a relative humidity between 20% and 80%. Standard equipment must be capable of operating at a maximum 6500-foot altitude, but certain locations are at higher elevations; therefore equipment at these locations must be capable of operating at the stated altitudes:

Location	Altitude
Addis Ababa, Ethiopa	8,300 feet
Bogota, Colombia	8,630 feet
La Paz, Bolivia	11,910 feet
Mexico City, Mexico	7,415 feet
Quito, Ecuador	9,300 feet
Sanaa, Yemen	7,250 feet

As a mandatory option, the successful Offeror to this RFP must conduct an on-site pre-installation survey prior to the initial installation of non-TEMPEST and domestic TEMPEST C3T-C6T processor(s). This survey must be conducted by an engineer who is authorized by the Contractor to specify and to certify the specific site specifications necessary for the Government to prepare that site for the proper operation of the equipment. The Offeror's price for conducting the pre-installation survey will be included in Section B, Table B-3. If the price is not included, then this support will be free of charge to the Government. Travel and per-diem expenses will be paid by the Government and will comply with the applicable regulations governing such expenses.

The Government will prepare the site at the Government's expense; however, the Offeror must provide specific site specifications for the "start-up" condition and the normal operating condition. These specifications shall include at least the following paragraphs for all proposed equipment including the Fiber Optic System.

C.11.1 Power Requirements

Proposed equipment and the Fiber Optic System must be capable of operating with the following requirements:

100 VAC 50 Hz	100 VAC 60 Hz
110 VAC 50 Hz	110 VAC 60 Hz
115 VAC 50 Hz	115 VAC 60 Hz
208 VAC 50 Hz	120 VAC 60 Hz
220 VAC 50 Hz	208 VAC 60 Hz
230 VAC 50 Hz	220 VAC 60 Hz
240 VAC 50 Hz	

Tolerances for the above is VAC ± 10 percent and Hertz ± 5 percent.

Each Offeror in the proposal must provide the following power requirements for each component and summarized to the configuration level:

a. Amount of KVA at start-up time and run time, voltage, and hertz plus the phase by lines to a power panel

b. Number of breakers and the amperage of each

c. Use of dedicated/isolated-dedicated circuits

d. Frequency tolerance (± Hertz)

e. Steady-state (nominal) voltage level tolerance (± percentage from nominal line to neutral or line-to-line voltage)

f. Transient voltage tolerances; maximum overvoltage and associated maximum periods (milliseconds) of each condition, as allowed before equipment malfunction.

C.11.2 Air Conditioning Requirements

For each component and summarized to the configuration level, the Offeror shall provide the following information:

a. Plenum minimum design temperature
b. Total BTU/HR requirements
c. Relative humidity range.

C.11.3 Floor Space

Offerors must provide in their proposals, for each equipment configuration C1-C6 and C3T-C6T (refer to Figure C-2), a scaled diagram showing each device installed in the available square footage. The diagram must show all electrical and signal connections. In addition, Offerors shall provide the following:

a. Minimum raised floor height (if required)
b. Floor loading requirement
c. Access door (size) requirements.

C.12 INSTALLATION OF EQUIPMENT

For evaluation purposes only, Attachment IX presents an installation schedule; the Government is not obligated to procure these quantities or to adhere to this schedule.

C.12.1 Non-TEMPEST and Domestic TEMPEST Installation Schedule

The contractor shall install the non-TEMPEST and domestic TEMPEST (and also foreign TEMPEST, if the Mandatory Option in Paragraph C.14.12.7 is elected) hardware and software, as set forth in this Section C.

C.12.2 Foreign TEMPEST Installation Schedule

The Contractor shall deliver all foreign TEMPEST equipment, software, spare parts, and fiber-optic systems in accordance with the delivery dates specified on the individual purchase orders to the following address:

Department of State
7500 Boston Blvd.
Fullerton Industrial Park
Springfield, Virginia 22153
Attention: OC/ML

The DOS personnel will inspect the equipment and prepare it for shipment to its ultimate destination via a controlled route. Upon arrival at the ultimate destination, DOS personnel will install the equipment, software and fiber-optic system in accordance with the engineering drawings and documentation provided by the contractor (refer to Subsection C.16). As discussed in paragraph C.14.12, DOS personnel will provide all TEMPEST maintenance support for foreign locations except as may be performed by the Contractor as stated in Paragraph C.14.12.7.

C.12.3 Management Plan

Attachment X requires a Management Plan, and Installation and Contingency Plans are part of that.

C.13 CONTRACTOR PERSONNEL SUPPORT

C.13.1 Technical Assistance

As a Mandatory Option (refer to Subsection C.11), an on-site pre-installation survey will be conducted prior to installation of the non-TEMPEST C3-C6 and domestic TEMPEST C3T-C6T configurations.

In addition, the Contractor shall provide four types of technical assistance throughout the systems life:

a. Full-time, on-site
b. Foreign TEMPEST technician
c. "Hot-line" service
d. Special request

The Contractor's pricing for providing the support required by this Paragraph C.13.1 will be included in Section B, Tables B-3 and

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B-6. Travel and per diem expenses will be paid by the Government and will comply with the applicable Government regulations governing such expenses. If the travel is necessitated by faulty site specifications provided by the Contractor, Contractor engineering design error, or Contractor supplied software error, travel and per diem will not be paid by the Government.

Attachment X, Management Plan, requires the Offeror to describe how the Technical Assistance is to be provided.

C.13.1.1 Full-Time, On-Site

One full-time, on-site programmer/system analyst (as defined in Section J, Attachment I) who can also conduct training on the Contractor's hardware systems and software must be provided at each of the DOS Regional Centers:

a. Bangkok, Thailand
b. Paris, France
c. Mexico City, Mexico

The duration of this support will be one year, starting 90 days after contract award, and shall be renewable for the systems life. The person assigned must have a SECRET clearance.

Two full-time, on-site programmer/system analysts who can also conduct training on the Contractor's hardware systems and software must be provided at the Department of State in Washington, D.C. The duration of this support will be for the systems life, starting 90 days after contract award. The personnel assigned must have a TOP SECRET clearance.

C.13.1.2 Foreign TEMPEST Technician

The Contractor must provide technician services, as required, on an on-call basis (within a 5-workday notice at the Springfield, Virginia site, or best effort at foreign locations). The technician shall assist DOS in planning installations, installing equipment, and/or resolving problems that may occur from unique requirements, and providing assistance in diagnosing technical problems. The duration of each request will vary dependent upon the circumstances, and this support will be available for the systems life. The technicians must have a TOP SECRET clearance.

C.13.1.3 "Hot-Line" Service

The Contractor must provide a "hot-line" service in the form of telephone and/or telex for technical assistance to answer questions or resolve problems relating to the use of the hardware and software. This service shall be available to all locations where Contractor supplied hardware and software is installed. The hours of operation for this service will be the Principal Period of Maintenance (local site time). This "hot-line" service shall be available throughout the systems life.

C.13.1.4 Special Request

The Contractor shall provide programmer/system analysts services as required on an on-call basis (within a 5-workday notice for domestic locations or best effort for foreign locations). These personnel shall assist the Government in efforts to successfully install, maintain, and use the hardware systems and software. These Contractor programmer/systems analysts will provide a range of technical assistance to the supervisors, data analysts, computer specialists, technicians, operators and end users. The duration of any on-call service may be up to 30 calendar days; this service shall be available throughout the systems life.

C.13.2 Conversion

The successful Offeror for this RFP must also perform certain aspects of conversion from the current Wang equipment to the vendor's equipment upon initial implementation, other conversion tasks are a Mandatory Option. Sections of this RFP that pertain to conversion are designated by CC, EE, FF. Each offeror must also respond to those requirements in accordance with the instructions in Section L.

C.14 EQUIPMENT MAINTENANCE

Paragraphs C.14.1 through C.14.11.5.4 pertain only to non-TEMPEST equipment and to domestic TEMPEST equipment and fiber-optic system. The foreign TEMPEST equipment and Fiber-optic system maintenance is specified in Paragraph C.14.12.

In certain countries designated by the Department of State, all non-TEMPEST equipment and Fiber Optic Systems must be maintained by TOP SECRET cleared, Contractor personnel. Paragraphs C.14.1 through C.14.11.5.4 pertain to the maintenance performed at these locations. The countries so designated may change from time to time; however, the Contracting Officer shall inform the Contractor at that time.

C.14.1 Responsibilities of the Contractor

The Contractor shall provide equipment maintenance (travel, labor, and parts) at the prices shown in Section B, Table B-1, of the Contractor's proposal, and shall keep the equipment in good operating condition. Maintenance service shall not include electrical work external to the equipment, the furnishing of supplies, and adding or removing accessories, attachments, or other devices. It shall not include repair of damage resulting from accident, transportation between Government sites, neglect, misuse, failure of electrical power or the air conditioning, or humidity control, or causes other than ordinary use. Maintenance is required at each location throughout the systems life. In addition, adequate Contractor specified levels of spare parts must be made available throughout the systems life. All domestic TEMPEST equipment and fiber-optic system maintenance must be performed by personnel with a TOP SECRET Clearance. Attachment X, Management Plan, requires each offeror to describe how maintenance will be provided for all locations.

C.14.2 Responsibilities of the Government

Government personnel shall not perform maintenance or attempt repairs to equipment while such equipment is under the purview of this contract unless agreed to by the Contractor.

a. Subject to security regulations, the Government shall permit access to the equipment which is to be maintained.

b. As necessary, the Government shall provide adequate storage space for spare parts and adequate working space, including heat, light, ventilation, electric current and outlets, and telephones (for local calls only) for the use of maintenance personnel. These facilities shall be within reasonable distance of the equipment to be serviced and shall be provided at no charge to the Contractor. The Contractor is to inform the Government of the amount of space required for this purpose, one week after award of contract.

c. The Government shall provide time for Contractor-sponsored modifications within seven (7) days after being notified by the Contractor that the modification is ready to be made. The time required to make the modification shall be outside the Principal Period of Maintenance hours.

d. The Government shall maintain site requirements in accordance with the equipment environmental specifications furnished by the Contractor.

C.14.3 On-Site Maintenance

Two (2) engineers capable of performing maintenance on all equipment (to include TEMPEST) must be available full-time during Principal Period of Maintenance hours, on-site at the main Department of State Building in Washington, D.C., throughout the systems life.

C.14.4 On-Call Maintenance

The Contractor shall provide on-call maintenance service with a response time indicated in Figure C-9 (all times are expressed in Principal Period of Maintenance hours), during the Principal Period of Maintenance, at the fixed monthly charges shown in Section B, Table B-1 of the Contractor's proposal.

As a Mandatory Option by site, the Government, by providing a 30-day written notice, requires the ability to obtain maintenance on a per-call basis in lieu of on-call. The Government further requires the ability to revert back to on-call maintenance from per-call maintenance by providing a 30-day written notice. If the option is exercised for per-call maintenance by site, the Government agrees to use this option for a minimum of 90 days. The response times in Figure C-9, as well as the downtime requirement stated in Paragraph F.9.3, apply to the per-call maintenance.

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Geographical Area	Response Time in Hours
United States	2
Canada	2
Northern Europe (Belgium, the Netherlands, Denmark, Ireland, Luxembourg, Norway, Sweden, United Kingdom, Finland)	4
Central Europe (Austria, Federal Republic of Germany, Switzerland)	4
Eastern Europe (German Democratic Republic, Bulgaria, Czechoslovakia, Hungary, Poland, Romania, Yugoslavia, Union of Soviet Socialist Republics)	6
Southern Europe (Cyprus, Greece, Turkey, Malta)	6

Figure C-9

MAINTENANCE RESPONSE TIME BY GEOGRAPHICAL AREA

September 12, 1986

Geographical Area	Response Time in Hours
Western Europe (France, Italy, Spain, Portugal)	4
Iceland and Bermuda	6
Africa I (Kenya, Nigeria, Liberia, Senegal, Ivory Coast, South Africa, Egypt, Zaire, Swaziland, Zimbabwe, Tunisia, Morocco)	4
Africa II (All other countries in Africa)	8
Asia I (Thailand, Indonesia, Malaysia, Hong Kong, The Philippines, Singapore, Peoples Republic of China, Taiwan)	4
Asia II (Burma, Laos, Brunei)	12
Japan and Korea	4
Australia, New Zealand, Fiji, Papua New Guinea	4

Figure C-9 (Cont'd)

MAINTENANCE RESPONSE TIME BY GEOGRAPHICAL AREA

Geographical Area	Response Time in Hours
Andean (Boliva, Columbia, Ecuador, Peru, Venezuela)	6
Caribbean (Antigua, Barbuda, Barbados, Bahamas, Cuba, Dominican Republic, Haiti, Grenada, Guayana, Surinam, Netherlands Antilles, Jamaica, Trinidad, Tobago)	8
Southern South America (Brazil, Argentina, Chile, Paraguay, Uruguay)	6
Mexico	4
Central America (Guatemala, Belize, El Salvador, Honduras, Nicaragua, Costa Rica, Panama)	6
Near East I (Jordan, Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, United Arab Emirates, Yemen)	6
Near East II (Iraq, Lebanon, Syria)	12

Figure C-9 (Cont'd)

MAINTENANCE RESPONSE TIME BY GEOGRAPHICAL AREA

September 12, 1986

Geographical Area	Response Time in Hours
Israel	6
South Asia I (India, Nepal, Sri Lanka, Pakistan, Bangladesh)	6
South Asia II (Bhutan, Maldives, Afghanistan)	12

Figure C-9 (Cont'd)

MAINTENANCE RESPONSE TIME BY GEOGRAPHICAL AREA

Should the Government require maintenance service outside the designated Principal Period of Maintenance or extension thereof, it will be on an on-call basis, and the response time will be best-effort. The hourly on-call rates for such additional maintenance service and the maximum charge for any one occurrence shall be as shown in Section B of the Contractor's proposal.

C.14.5 Maintenance Options Required

On a "by-site" basis, the Government, by giving thirty (30) days, written notice to the Contractor, has the option to extend the maintenance coverage outside the Principal Period of Maintenance for the fixed charges set forth in Section B, Table B-8-2, of the Contractor's proposal in accordance with the following:

a. Extended Maintenance Period Option I - Extends the Principal Period of Maintenance to 12 consecutive hours

b. Extended Maintenance Period Option II - Extends the Principal Period of Maintenance to 16 consecutive hours

c. Extended Maintenance Period Option III - Extends the Principal Period of Maintenance to 20 consecutive hours

d. Extended Maintenance Period Option IV - Extends the Principal Period of Maintenance to 24 Consecutive hours.

C.14.6 Response Time

The Contractor's maintenance personnel shall arrive at the designated point within the Principal Period of Maintenance hours indicated in Figure C-9. Response time measurement is from the time that the Government notifies the Contractor that remedial maintenance is required until the arrival of the Contractor's maintenance personnel. If maintenance personnel fail to arrive at the installation within the designated response time, the Contractor shall grant a credit to the Government in excess of the specified response time and up to actual arrival time (see Paragraph F.8). Response time for calls outside of the Principal Period of Maintenance shall be on a best-effort basis.

C.14.7 Non-Chargeable Maintenance Items

There shall be no additional charges for -

a. Replacement parts, unless such parts are required due to the fault or negligence of the Government

b. Preventive maintenance, regardless of when performed

c. Remedial maintenance performed for up to one hour after the Principal Period of Maintenance (PPM) time (including any of the options exercised by Paragraph C.14.5). The Government must have made the request during the PPM, and the Contractor maintenance personnel must have started the work during the PPM. If such remedial maintenance is not completed within this one-hour period, the Contractor shall, upon authorization by the Government, continue to work to complete the remedial maintenance at the applicable per-call rate. Downtime credits will not accrue if the Government elects not to authorize the Contractor to continue the remedial maintenance.

d. Time spent by maintenance personnel after arrival at the site awaiting the arrival of additional maintenance personnel and/or delivery of parts, etc. after a service call has commenced.

e. Remedial maintenance required on any machine when the scheduled preventive maintenance for that machine preceding the malfunction had not been performed. If preventive maintenance was omitted at the Government's request or the Contractor was denied access to the equipment, this C.14.7e will not be applicable.

f. Remedial maintenance required within a 48-hour period due to a recurrence of the same malfunction.

C.14.8 Preventive Maintenance

Preventive maintenance must be performed during times other than the Principal Period of Maintenance. The Contractor shall specify in the proposal the frequency and duration of the preventive maintenance required for the equipment procured under the contract resulting from this solicitation. If a mutually agreed upon schedule for preventive maintenance cannot be established, the Government reserves the right to specify the schedule for performance of preventive maintenance.

C.14.9 Remedial Maintenance

The Contractor shall perform remedial maintenance after notification by the Government that equipment and/or operating software is inoperative. The Contractor shall provide the Government with a designated point(s) of contact and make arrangements to enable its maintenance representative to receive such notification or provide an answering service or other continuous telephone coverage to permit the Government to make such contact.

C.14.10 Malfunction Reports

The Contractor shall complete a malfunction incident report upon completion of each remedial maintenance call. The report shall include as a minimum, the following:

a. Date and time notified

b. Date and time of arrival

c. Date and time equipment returned to use

d. Chargeable time spent for repair

e. Description of malfunction, including the type and serial numbers of devices which are not fully operable

f. Signature of Contractor representative making repair.

A copy of this report will be given to the Government representative at the site where the remedial maintenance was performed.

C.14.11 Special Provisions for Maintenance of Government-Owned ADPE

C.14.11.1 General

The maintenance prices listed in this contract include cost of travel, lodging, labor, and parts and such other expenses as are necessary to keep the equipment in good operating condition.

C.14.11.2 Maintenance Coverage

The Contractor shall honor orders for maintenance under any of the maintenance options set forth in Section C for periods of one (1) year or less at the prices shown in Section B of the Contractor's proposal. All equipment which is a part of the system delivered under this Solicitation shall be covered by the same maintenance provisions.

a. The effective date of maintenance service, the type and model number(s) of the equipment, and applicable charges shall be specified on the order.

b. The effective date of maintenance service shall not be prior to the expiration of the warranty period prescribed in Paragraph I.5.1.1.

C.14.11.3 Discontinuance Notice

The Government may discontinue maintenance services, in whole or in part, under this contract by giving the Contractor thirty (30) days written notice.

C.14.11.4 Responsibilities of the Contractor

Only new standard parts or parts equal in performance to new parts shall be used in effecting repairs. Parts which have been replaced shall become the property of the Contractor.

a. Should the Government make alterations or install attachments which affect the maintenance of this equipment, the continuation of maintenance service on this equipment shall be subject to mutual agreement. Should the alterations or attachments increase the maintenance costs to the Contractor, additional maintenance charges shall be made on an individual installation basis. If such alterations or attachments create a safety hazard, the Contractor may discontinue maintenance service on the hazardous equipment. In addition, should such be the cause of malfunction or downtime, such downtime shall not be creditable under paragraph F.9.

b. Contractor-sponsored alterations or attachments to equipment shall be made with the consent of the Government. Appropriate modification of the contract shall be negotiated for each such alteration which either enhances the value of the system to the Government or decreases the overall maintenance costs.

C.14.11.5 Movement of Equipment

In the event that the system being maintained under the terms and conditions of this Solicitation is moved to another location within the same geographical service area (refer to Figure C-9), as designated by the Contractor, the terms and conditions of any Contract resulting from this Solicitation shall continue to apply. If the system is moved from a location within a designated geographical service area to a location within another designated geographical service area (refer to Figure C-9), the terms and conditions of any Contract resulting from this solicitation will continue to apply. If the system must be moved outside any of the designated service areas (refer to Figure C-9), then the continued applicability of the Contract resulting from this Solicitation shall be subject to mutual agreement.

a. The Government shall give at least thirty (30) days written notice to the Contractor of its intention to move the equipment, except in emergencies.

b. Maintenance charges shall be suspended on the day the dismantling of the equipment in preparation for shipment is begun. Maintenance charges shall be reinstated on the day that the Contractor completes reassembling the equipment. The Government shall be charged for disassembly and reassembly at the Contractor's regular maintenance service call rate, provided that the Contractor charges his commercial customers for such services.

c. Shipment to the new installation site shall be at the Government's expense by electronic padded van or air freight. The Government may ship the equipment by Government transportation or by commercial carrier, or, at its option, provide the Contractor with an authorization to ship by commercial carrier on a prepaid basis, in which case the Government shall be invoiced for transportation, rigging, and drayage costs.

C.14.12 Foreign TEMPEST Equipment Maintenance

C.14.12.1 General

The DOS will provide on-site maintenance of foreign TEMPEST equipment, including the Fiber-Optic System; however, the contractor must provide Repair and Return (R&R) maintenance services. If the DOS requires assistance prior to or during the installation (refer to Paragraph C.13.2, Contractor Personnel Support) or at any time during the contract-life, the Contractor will provide appropriate personnel with a TOP SECRET clearance. Travel and per diem expenses will be paid in accordance with the applicable Government regulations covering such expenses. If contractor support is required to correct engineering design problem(s), deficiency(s), faulty site installation specifications, or other contractor error, the support shall be provided at no cost to the Government.

C.14.12.2 Repair and Return (R&R)

These Repair and Return (R&R) provisions take effect after the successful performance period (refer to Subsection E.1) and the Warranty Period (refer to Subsection I.5). The DOS shall notify the Contractor in writing of the date of the first day of the successful performance period (refer to paragraph E.1.15). The R&R of foreign TEMPEST equipment includes complete units, subassemblies, or components dependent upon the degree to which the Government can isolate the problem. The R&R shall not include repair of damaged equipment resulting from accident; transportation between Government sites; neglect; or causes other than ordinary use.

C.14.12.2.1 Responsibilities of the Contractor

The term equipment used herein shall be construed to also include components and cables. The Contractor shall provide R&R for all proposed foreign TEMPEST hardware, including the fiber-optic system. Prior to the effective date for the R&R (refer to C.14.12.2), the Contractor is liable for all replacement, or repair, and shipping costs, to and from the Government site in Springfield, Virginia. The Contractor is also liable for damages caused in the transportation of equipment from the Contractor's site to the Springfield, Virginia, site. Starting with the effective date of R&R, the Government shall be responsible for the shipping costs of returning defective equipment to the Contractor for repair or replacement. The Contractor shall be responsible for shipping costs of the repaired or replaced equipment to the Government at the address specified in Subsection C.12.2. Equipment received for repair or replacement shall be restored to full operational status and returned to the Government within 30 days after receipt by the Contractor.

C.14.12.3 Contractor Sponsored Alterations or Attachments

Contractor sponsored engineering changes, alterations or attachments to equipment shall be made only with the consent of the Contracting Officer. Appropriate modifications of the contract shall be negotiated for each such engineering change, alteration or attachment which either enhances the value of the system to the Government, or decreases the overall maintenance cost for repairs. The Contractor is required to demonstrate the merit of any such engineering change, alterations or attachments and obtain approval of the Government prior to implementation. If the Government determines that an engineering change alteration or attachment results in a requirement for TEMPEST re-certification, the re-certification process shall be done at the Contractor's expense.

C.14.12.4 Quality Control

The manufacturer must meet the Quality Assurance (QA) Procedures in Attachment VIII. A complete TEMPEST test plan must be provided for each equipment as stated in NACSIM 5100A. This will be used to determine Table 1 of the QA program.

C.14.12.5 Spare Parts

Offerors must propose spare parts for the foreign TEMPEST equipment and fiber-optic system. These parts are to be shipped to the same address as the foreign TEMPEST equipment, and they will be used to maintain the equipment. Offerors should include those spare parts that fail more frequently, and, therefore, should be readily available for the DOS to return the equipment to an operational mode. All spare parts shall be available throughout the systems life.

C.14.12.6 Maintenance Tools and Test Equipment

Offerors must propose off-the-shelf maintenance tools and test equipment for use by the DOS maintenance personnel on the foreign TEMPEST equipment and fiber-optic system. The tools and test equipment should be that which the Offeror's own maintenance personnel use to maintain the foreign TEMPEST equipment and fiber-optic system. In addition, the Termination Kit as specified in paragraph C.3.12.1.1 shall be a part of these tools and test equipment.

C.14.12.7 Contractor Maintenance Foreign TEMPEST Equipment (Mandatory Option)

As a mandatory option, Offerors must propose maintenance and installation for Foreign TEMPEST equipment and fiber optic systems. Contractor personnel performing this installation and maintenance must have a Top Secret clearance. Paragraphs C.14.1 through C.14.11.5 pertain to the maintenance performed by the exercise of this option.

C.15 TRAINING

C.15.1 Mandatory Optional Requirements

As stated in Subsection C.1, the Department of State and the other participating agencies cannot precisely quantify their requirements in terms of specific hardware and software configurations; furthermore, the exact times by locations of future deliveries are not known at this time. As a result, the Government requires flexibility in both quantities and delivery scheduling for training after the requirements materialize. The foreign TEMPEST maintenance training is mandatory, but the User Training for TEMPEST AND non-TEMPEST is Mandatory Optional. The Government will specify the training modules required by providing a 30-day written notice to the Contractor on purchase orders. For evaluation purposes, the assumptions and instructions for completion of Table B-4 and B-6 are presented in Section B.

C.15.2 Types of Training

The Contractor shall provide five types of training throughout the systems life:

a. Foreign TEMPEST maintenance
b. Pre-Installation
c. Installation
d. Annual
e. Special request

All Contractor instructors' travel and per diem expenses will be paid by the Government and will comply with the applicable Government regulations governing such expenses.

C.15.2.1 Foreign TEMPEST Maintenance Training

The foreign TEMPEST maintenance training is a mandatory requirement, and Figure C-10 (part b) displays the minimum training topics for which the Offerors must propose course syllabuses. This training is for technical personnel who will maintain the foreign TEMPEST equipment; therefore, the quality of instruction is to be equivalent to that which the Contractor provides for their own maintenance personnel. The training must be lecture-type classes in a classroom setting, supplemented with at least 75% hands-on training

COURSE TOPIC (RFP REFERENCE)	TYPE STUDENT
a. User Training (For TEMPEST and Non-TEMPEST Systems)	
1. C1 - C6	
Trainer Instruction	P
Management Overview**	M, P/S
System Management and Administration (ADP and WP)	S/C
Personal Computer Operation*	P/S
Hardware Operation (C.3)*	P/S
Operating System (C.4.1)*	P/S
User Command Facility (C.4.1.1.12)*	P/S
System Procedure Language (C.4.1.1.13)*	P/S
File Management (C.4.2)	P/S
COBOL (C.4.3.1.1)	S
BASIC (C.4.3.1.2)	S
FORTRAN (C.4.3.1.3)	S
Assembler Language (C.4.3.1.4)	S
Linkage Editor (C.4.3.2)	S
Program Development Tools (C.4.3.3)	P/S

* Courses are also to be taught in French, Spanish, and Arabic, as well as English at the Vendor's proposed separate location for each language. In addition, these courses are to be taught in Mandarin Chinese at Hong Kong, Peoples Republic of China, and Taiwan. The use of interpreters, who are technically knowledgeable, is permissable.

** Pre-installation training. See Paragraph C.15.2.2.

Figure C-10

TRAINING REQUIREMENTS

COURSE TOPIC (RFP REFERENCE)	TYPE STUDENT
Program Library Facility (C.4.3.4)	P/S
Query Language (C.4.4.1)	P/S
Report Generator (C.4.4.2)	P/S
Graphics (C.4.4.3)	P/S
Database Management System (C.4.4.4)	P/S
Word Processing (both introductory and advanced) (C.4.4.5)*	P/S, C
Electronic Mail (C.4.4.6)	P/S
Electronic Spreadsheet (C.4.4.7)	P/S
Electronic Calendaring/Scheduling (C.4.4.8)	P/S, C
Electronic Filing (C.4.4.9)	P/S, C
Image Processing (C.4.4.10)	P/S
Statistics Software (C.4.4.11)	P/S
Utilities (C.4.5)*	P/S
Security (C.5.1)	M, P/S, O
Data Communications for Users (C.5.2)	P/S

* Courses are also to be taught in French, Spanish, and Arabic, as well as English at the Vendor's proposed separate location for each language. In addition, these courses are to be taught in Mandarin Chinese at Hong Kong, Peoples Republic of China, and Taiwan. The use of interpreters, who are technically knowledgeable, is permissable.

Figure C-10 (Cont'd)

TRAINING REQUIREMENTS

COURSE TOPIC (RFP REFERENCE)	TYPE STUDENT
System Performance	S
Personal Computer Maintenance	S
Site Planning for Installation**	S, O
2. WI	
Basic (C.4.6.3)	S
Graphics (C.4.6.3)	P/S
Database Management System (C.4.6.3)	P/S
Word Processing (both introductory and advanced) (C.4.6.1)*	P/S, C
Electronic Spreadsheet (C.4.6.3)	P/S
Statistics Software (C.4.6.3)	P/S
Utilities (C.4.6.3)*	P/S
Communications (C.4.6.3)	P/S
Office Automation Functions (C.4.6.3)	P/S
b. Foreign TEMPEST Maintenance Training (TEMPEST Equipment and the Fiber-Optic System)	
Systems Management and Administration	M, P/S
Site Preparation and Installation	S
Theory of Operation	S
Troubleshooting and Diagnostic Procedures	S
Cable Termination	S

* Courses are also to be taught in French, Spanish, and Arabic, as well as English at the Vendor's proposed separate location for each language. In addition, these courses are to be taught in Mandarin Chinese at Hong Kong, Peoples Republic of China, and Taiwan. The use of interpreters, who are knowledgeable, is permissible.

** Pre-installation training. See paragraph C.15.2.2.

Figure C-10 (Cont'd)

TRAINING REQUIREMENTS

and practical exercises. For this training, the Contractor will use foreign TEMPEST equipment identical to that which DOS is ordering and installing, and the software will be the most recent version.

The foreign TEMPEST training will be conducted in the Washington, D.C. area or at the Contractor's facility if it is demonstrated to be more advantageous to the Government. The Contractor will schedule this training to coincide with delivery of the first TEMPEST systems, and thereafter upon each delivery.

C.15.2.2 Pre-Installation Training

Pre-installation training will be at the installation site, if ordered, and it shall be scheduled to occur no later than 30 days prior to the scheduled installation date. The topics shall be those indicated in Figure C-10 (part a) by a "***".

C.15.2.3 Installation Training

Installation training will be at the installation site utilizing government-furnished equipment, and it will coincide with installation. This training, if ordered, must include those topics specified in Figure C-10 (part a) for the hardware and software that was requested on the purchase order.

C.15.2.4 Annual Training

Offerors must propose, as a minimum, course syllabuses for the training topics that Figure C-10 (part a) displays. All subjects are to be taught in a logical sequence.

There will be several possible locations:

- Washington, D.C.
- San Francisco, CA
- Boston, MA
- Miami, FL
- Dallas, TX
- Chicago, IL
- New York, NY
- Bangkok, Thailand
- Mexico City, Mexico
- Paris, France
- Nairobi, Kenya
- Cairo, Egypt

The Offeror may propose additional geographically centralized locations.

C.15.2.5 Special Request Training

Personnel turnover, particularly at foreign locations, makes it necessary to have training classes available on a special request basis throughout the systems life. The courses that are to be available on a 30-day written notice basis are those in Figure C-10 (part a). The training locations will be the same as those given for Annual Training. In addition, the word-processing (both introductory and advanced), personal computer programming and operation, and Database Management System are to be taught, as requested, on site where the equipment obtained through this Solicitation is installed.

C.15.3 Types of Students

Offerors shall structure their courses for three (3) types of students. Paragraph C.1.1 defined five (5) categories of users; however, for training purposes, some categories have been combined:

a. Managers (M) - ADP experience can be assumed to be confined to only generalized knowledge.

b. Professionals (P) and ADP Specialists (S) - Can be assumed to have actual ADP experience.

c. Administrative/Clerical (C) and Other (O) - ADP knowledge can be assumed to be confined to that as an end user.

For the topics designated in Figure C-10 for presentation to different types of students, a separate course must be presented. For example, Security is designated for three student types: M, P/S and C. The M requires one presentation type, the P/S course requires another presentation type, and C requires still another presentation, because of the differing ADP skill levels of the three types.

C.15.4 Training Topics

Figure C-10 displays the minimum training topics for which Offerors must propose course syllabuses. Attachment IV presents descriptions for those topics in Figure C-10 (part a) that do not have a RFP reference number. For those courses that have reference numbers (e.g., Hardware Operation, C.3), the course syllabus must encompass all the information in the cited RFP reference. For those topics in Figure C-10 (part b) the Foreign TEMPEST Maintenance training, the course syllabus must encompass the same quality of training that the Contractor provides for their own maintenance personnel.

C.15.5 Training Standards

The Offeror is encouraged to combine topics, where appropriate, for a training module and to recommend the minimum and maximum number of students per session. User training will be primarily "hands on" instruction supplemented with lecture, discussion and demonstration using Government furnished equipment, as required. The Offeror is encouraged, however, to propose innovative training techniques such as computer-based, self-paced tutorials, etc. to supplement traditional classroom training.

The training curriculum for all topics in Figure C-10 (both parts a and b) and the training plan (C.15.7) shall be subject to review and approval by the Government prior to contract award.

All instructors shall be experienced trainers, be experienced on the systems they are using, and be experienced on the topics they are teaching. All training shall be geared to the Offeror's proposed system.

Students attending these courses, unless otherwise specified, shall be Government employed personnel with varying levels of experience in using, operating, maintaining, or programming computer systems. The Contractor is not expected to provide instruction in general ADP principles.

The Contractor shall provide all attendees with the appropriate manuals, text material, and course outlines necessary for the specified training. All printed material provided to students shall become the property of the Government and the Government shall retain rights of use and duplication to any and all training materials furnished, subject to the Contractor's expressed further dissemination rights. If the Contractor uses interpreters to satisfy the language requirements of Figure C-10, the printed material provided to the students will be in their own language.

The Government reserves the right to evaluate all training sessions for adherence to course outlines, for adequate course quality, and for achieving the stated learning objectives. As a result of this training evaluation, and in order to enhance the quality of future training, the Government further reserves the right to require the Contractor to make those changes in the conduct of the training session at no additional charge. The Government also reserves the right to review and approve the instructor's qualifications and to evaluate their performance on a continuing basis.

C.15.6 Schedule for Training

Scheduling of courses for the initial installation training shall be subject to equipment installation dates and be mutually agreed upon between the Contractor and the DOS. Additional required training will be scheduled as mutually agreed between the Contractor and the DOS.

C.15.7 Training Plan

Offerors must propose a plan for the recommended training program to provide for training Government personnel on the use, operation and maintenance (as appropriate) of the equipment and software to be delivered. This applies to both mandatory and mandatory optional features. Offerors must propose how they will satisfy all training requirements to include equipment, computer time, audio visual aids, automated programmed learning, textual materials and classroom facilities. Section J, Attachment X, Management Plan, describes what the Offeror is to provide in the Training Plan.

C.16 MANUALS AND PUBLICATIONS

With the delivery of the equipment and software (see paragraph C.12) the Contractor shall furnish user manuals, and publications for all Contractor software and equipment provided under this contract. The Contractor shall also provide Engineering Maintenance Manuals for the foreign TEMPEST equipment and fiber-optic system. All manuals and publications must be provided also on an as requested basis throughout the systems life. The Contractor shall also provide, and keep updated, a documentation directory with an overall cross-reference index which enables users to locate appropriate documents covering selected topics. At a minimum, the Contractor must provide ordered documentation as presented in Figure C-11 with, or before, delivery of ordered equipment and software.

The Offeror is encouraged to combine topics, where applicable, for a specific documentation set.

The DOS will specify the additional documentation required on an as requested basis by providing a 30-day written notice to the Contractor on individual orders. Any cost to the DOS for documentation will be entered in Section B, Table B-5.

All manuals and publications will be maintained and updated throughout the systems life and delivered to the Systems Manager at each site (refer to Secton J, Attachment IX for sites). The Offerors must propose an automatic update subscription service whereby subscribers automatically receive new manuals or addendum sheets with instructions for amending their existing manuals. Attachment X, Management Plan, describes the requirement for each offeror to provide a Documentation and Technical Information Plan.

Documentation	Quantities
Hardware Operation (Reference C.3)*	2 per CPU
Operating Systems (Reference C.4.1)*	2 per CPU
User Command Facility (C.4.1.1.12)*	1 per workstation
System Procedure Language (C.4.1.1.13)*	1 per workstation
File Management (Reference C.4.2)	1 per workstation
COBOL (Reference C.4.3.1.1)	2 per CPU
BASIC (Reference C.4.3.1.2)	2 per CPU
FORTRAN (Reference C.4.3.1.3)	2 per CPU
Assembler Language (C.4.3.1.4)	2 per CPU
Linkage Editor (Reference C.4.3.2)	2 per CPU
Program Development Tools (Reference C.4.3.3)	2 per CPU
Program Library Facility (Reference C.4.3.4)	2 per CPU
Query Language (Reference C.4.4.1)	2 per CPU
Report Generator (Reference C.4.4.2)	1 per workstation
Graphics (Reference C.4.4.3)	1 per W1 and W3 workstation
Database Management System (Reference C.4.4.4)	1 per workstation

* Documentation is to be available in French, Spanish, Mandarin Chinese, and Arabic, as well as English.

Figure C-11

MANUALS AND PUBLICATIONS REQUIREMENTS

Documentation	Quantities
Word Processing (Reference C.4.4.5)*	2 per workstation
Electronic Mail (Reference C.4.4.6)	1 per workstation
Electronic Spreadsheet (Reference C.4.4.7)	1 per workstation
Calendaring/Scheduling (Reference C.4.4.8)	1 per workstation
Electronic Filing (Reference C.4.4.9)	1 per workstation
Image Processing (C.4.4.10)	1 per imaging workstation
Statistics Software (C.4.4.11)	1 per workstation
Utilities (Reference C.4.5)*	1 per workstation
Personal Computer (to include all applicable software) (C.4.6)	1 per W1 standalone
Security (Reference C.5.1)	1 per workstation
Communications (Reference C.5.2)	1 per workstation
Site Preparation Guidelines	2 per CPU
Engineering Maintenance Manuals (C.14.12)**	2 per CPU
Theory of Operations**	2 per CPU
Circuit Block Diagrams**	2 per CPU
Illustrated Parts List (to include sources and parts identification)**	2 per CPU
Trouble-Shooting and Diagnostic Procedures**	2 per CPU
Fiber-Optic Connector Termination Procedures**	2 per CPU

* Documentation is to be available in French, Spanish, Mandarin Chinese, and Arabic, as well as English.

** These manuals are for Foreign TEMPEST equipment only.

Figure C-11 (Cont'd)

MANUALS AND PUBLICATIONS REQUIREMENTS

C.16.1 Security Feature User's Guide

A manual in user documentation shall describe the protection mechanisms provided by the operating system, guidelines on their use, and how they interact with one another. One (1) set is required for each workstation.

C.16.2 Trusted Facility Manual

A manual addressed to the ADP system administrator at each location shall present cautions about functions and privileges that should be controlled when running a secure facility. The procedures for examining and maintaining the audit files as well as the detailed audit record structure for each type of audit event shall be given.

C.17 SOFTWARE SUPPORT

C.17.1 Software Furnished

The Contractor shall furnish the software listed in Subsection C.4 and the software required in Subsection C.5, at the prices listed in Volume III of the contract. The Contractor shall support such software, including any Contractor sponsored modification or revisions thereto, at no additional costs for the duration of any Contract resulting from this Solicitation, including renewals thereof. The support provided will consist of at least the following: correction of errors, provision of Contractor-sponsored modifications, improvements and revisions. Attachment X, Management Plan, requires each Offeror to describe how software support will be provided.

C.17.2 Modifications and Revisions

The Contractor must provide DOS with full documentation of all changes and/or modifications to the software provided to meet the Government requirements.

In the case of new software level releases, the Government may elect to accept the later versions of the software, and if accepted, the Contractor shall provide software support at no additional cost during the period of any Contract to result from this Solicitation, including renewals thereof. Any reprogramming or additional equipment required to accommodate such later version will be at the Government's expense. If the Government elects not to accept such later versions, the Contractor shall continue to correct any latent defects of the software supplied under this Solicitation. Such obligation to correct latent defects shall be limited to that necessary to permit the Government to process the workload.

C.17.3 Operating Software

The operating software required to make use of the equipment acquired under this solicitation will be provided and supported by the Contractor. Operating software refers to those routines that interface directly with hardware peripheral devices, the computer operations, application programs, and utility programs. The proposal must include a description of the software support mechanisms, including malfunction reporting and problem resolution. The proposal must also include a clear and concise description of the means by which the Offeror supports the operating software if the Offeror is not the developer of this software.

C.17.4 Software Performance

The software furnished shall conform to and perform in accordance with the Contractor's functional descriptions and data requirements stated in Section C. With respect to operating systems software, a successful benchmark and performance period shall be considered as proof of satisfactory performance.

C.17.5 Availability of Additional Software

Any other software the Contractor announces, improves or may develop for general use with the type of equipment supplied under this Solicitation, shall be made available to DOS on the same basis that such software is provided to the Contractor's Government customers. The delivery date shall be mutually agreed upon by the Contractor and DOS.

C.18 EVALUATED OPTIONAL FEATURES

There are no evaluated optional features.

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CONVERSION REQUIREMENT STATEMENT OF WORK

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September 12, 1986

SECTION CC

CONVERSION REQUIREMENT STATEMENT OF WORK

CC.1 SCOPE

All requirements specified in this section pertain to the Department of State and apply equally to the associated agencies for this procurement, including the:

- Agency for International Development (AID);
- United States Information Agency (USIA);
- Foreign Agricultural Service (FAS) of the U.S. Department of Agriculture (USDA);
- Foreign Commercial Service (FCS) of the U.S. Department of Commerce (DOC); and
- Other agencies authorized by the Department of State to acquire equipment under this contract.
- The Peace Corps does not have a conversion requirement.

The Department of State requires a five-year indefinite quantity contract for hardware and software plus three additional optional years for support services including conversion. Optional years may be necessary for the conversion of source systems being replaced by target systems acquired in the fifth year.

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The Government will acquire new equipment as necessary to provide automatic data processing (ADP) and word processing (WP) capabilities for offices that are not automated at that time, or to expand those capabilities at using offices that require replacement of current systems that either cannot support an increased workload or are at the end of their useful life. This contract also requires the Contractor to support conversion activities associated with equipment replacement at existing Department of State and associated agency computer installations.

These conversion activities include software conversion and conversion support services required to transition ADP applications (including programs, Operation Control Language (OCL), data files and data bases), WP document files, and glossaries from the Department of State and associated agencies' current environment systems to the target environment systems as proposed by the successful Offeror. Such software conversion, parallel maintenance, and other Contractor support services shall be furnished in conformance with the terms and conditions of the contract.

Two types of conversion requirements exist:

a. Initial Conversion Requirements - Address the conversion of standard applications and WP glossaries that are specifically identified and scheduled by this RFP in Subsection CC.6.4. The initial conversion will utilize six target systems categorized as Initial Development Systems in the Installation Schedule, Section J, Attachment IX.

b. Future Conversion Requirements - Address the conversion of other sites where vendor equipment is to be installed throughout the contract life. Future conversion requirements include the implementation of standard applications and glossaries converted under the initial conversion effort, the conversion of data files pertaining to standard applications, and the conversion of other ADP applications, files, WP glossaries and documents. For evaluation purposes, the systems are scheduled for replacement according to the Installation Schedule, Section J, Attachment IX.

The future conversion requirements will be determined by the Government, with Contractor support, during a conversion planning effort which will begin shortly after contract award. These future conversion requirements will then be subsequently monitored and adjusted, as necessary, throughout the conversion project life.

This solicitation specifies guidelines which must be followed in the presentation of technical and cost proposals related to the conversion requirements. In order to handle the costing of the conversion, Offerors must propose a firm-fixed price for the initial conversion activities and a firm-fixed-pricing methodology for the future conversion activities which will incorporate all of the conversion requirements as set forth in Section CC, Attachment IX and Attachment XIII of Section J. It is expected that the methodology will consider various conversion requirements, volumes of data and documents to be converted from source to target systems, number of standard and locally developed applications to be converted and installed, and so forth.

In accordance with Section L, Offerors must describe in detail their approach to the conversion and their firm-fixed-pricing methodology for establishing costs to accomplish the conversion. Please note that the Government will reject unreasonably complex pricing methodologies, will evaluate each Offeror-proposed approach completely, and will award additional technical points for the reasonableness and utility of the proposed approach. Approaches which do not clearly bind the Offeror and which do not protect the Government may be rejected.

Proposals submitted in response to this RFP must address, with firm-fixed prices derived from the firm-fixed-pricing methodology, the following conversion issues, which are discussed in the remainder of Section CC:

- Conversion Planning;
- Conversion Support; and
- Conversion Execution

As mandatory requirements during the conversion project life, the successful Offeror will be required to:

a. Provide conversion tools and aids (as described in Subsection CC.5);

b. Conduct training courses in conversion management, methodology and techniques;

c. Develop, with department/agency support, conversion plans as required to support the project management effort at the department/agency and major organization levels;

d. Conduct all conversions specified in Subsection CC.6.4;

e. Maintain side-by-side parallel operation of new standard development systems with existing standard development systems; and

f. Install and implement the converted standard production programs, and convert and install data files at all standard production system sites.

As mandatory optional requirements during the conversion project life, the Contractor also may be required to:

g. Develop detailed conversion plans for foreign and domestic sites; and/or

h. Provide conversion support services; and/or

i. Perform the conversion of:

   1. ADP applications (local), and/or

   2. ADP data files (local), and/or

   3. Word processing document files, and/or

   4. Word processing applications that are implemented using the Wang Glossary facility (herein referred to as glossaries).

The Government reserves the right to determine the degree of its participation in the performance of all activities and tasks.

The Offeror shall demonstrate that it has successfully executed conversion projects of similar scope and complexity to the conversion requirements of this solicitation. The Government's evaluation of corporate conversion project management and technical experience will be based on summaries provided by the Offeror, and by Government follow-up with specified contractual and technical contacts of project personnel provided in the project summaries.

CC.2 BACKGROUND

During the period from April through November 1985, the Department of State conducted a conversion study as a prerequisite to this procurement activity. The conversion study (excluding information pertaining to conversion cost estimates), application software and applicable software documentation are available for inspection in the Department of State Reading Room (see Section J, Attachment XVIII for instructions).

The conversion study determined that there are approximately 953 unique computer systems located in over 270 foreign posts and in numerous domestic department/agency offices that are subject to potential conversion. Following is a summary of these systems (excluding personal computers):

EQUIPMENT TYPES	FOREIGN	DOMESTIC	TOTALS
VS	128	61	189
OIS/ALLIANCE	296	203	499
WPS	168	265	265
TOTALS	521	432	953

Of those systems above, the approximate number of systems currently scheduled for conversion are (excluding personal computers and those systems moving to personal computers):

	Domestic	Foreign	Total
DOS:			
VS	13	29	42
OIS/Alliance	51	75	126
WPS	69	25	94
AID:			
VS	0	19	19
OIS/Alliance	17	16	33
WPS	13	19	32

	Domestic	Foreign	Total
USIA:			
VS	0	2	2
OIS/Alliance	28	45	73
WPS	3	12	15
TOTAL:			
VS	13	50	63
OIS/Alliance	96	136	232
WPS	85	56	141

Figure CC-2-1 illustrates the general mix of applications supported, but not necessarily implemented, on these computer systems. The types of ADP applications executed on the computer systems are further defined as follows:

- Standard Applications - These are ADP applications that satisfy specific operational and administrative requirements of the owning department/agency. These applications are centrally developed and maintained, and are distributed and implemented, primarily, at foreign sites. Section J, Attachment XVI provides summary descriptions of the standard applications.

- Locally Developed Applications - These are ADP applications that satisfy unique requirements of a specific domestic or foreign location. These applications typically are developed and maintained by Government personnel assigned to that site.

- Office Automation Applications - These applications consist of the Wang supplied word-processing application, the automated document generation/modification facility (e.g., Glossary utility), the document filing/archiving utilities,

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APPLICATION MIX	VS-xxx	OIS-xxx/ ALLIANCE	WPS-xx
OFFICE AUTOMATION APPLICATIONS			
Word Processing (1)	X	X	X
Automatic Document Generation	X	X	X
Document Filing/Archiving	X	X	X
Inter-System Document Transfer	X	X	X
ADP APPLICATIONS			
Assembly Language Programs	X		
BASIC Language Programs (2)	X	X	
COBOL Language Programs	X		
FORTRAN Language Programs	X		
DBMS APPLICATIONS (3)	X		
THIRD PARTY GENERIC APPLICATIONS (4)	X	X	

NOTES:

1. The word processing application is functionally similar across the equipment types.

2. Wang BASIC language is fully compatible within VS systems, and within OIS/Alliance systems. However, the language is not source/object code compatible between VS and OIS/Alliance systems.

3. DBMS applications are implemented using TOTAL, Response-R, and PACE. There are also several 'PC' based DBMS's. These DBMSs are described in Subsection CC.3.1.

4. Third Party generic applications include CAP, MINITAB, Alliance Visual Memory, automatic spread sheets, and other such stand-alone end-user oriented products. These applications are described in Subsection CC.3.1.

Figure CC-2-1

APPLICATION MIX ON EQUIPMENT TYPES

and the inter-system document transfer utilities and capabilities.

The computer systems also are categorized to indicate the primary usage of the system. Following are definitions of these categories:

- o Standard Development Systems - These systems are Wang VS computer systems that are used for the development, maintenance, and distribution of the standard applications. Additional applications executed on standard development systems may be any mix of office automation and locally developed applications. Six new systems are identified as Development Systems in the Installation Schedule, Section J, Attachment IX. These systems are to be used for the conversion of standard applications in the initial conversion efforts. These six new systems will operate as parallel systems to the existing standard development systems until released by the Government. Standard development systems in the Washington, D.C. area are operated by the Information Systems Office (A/ISO), Consular Affairs (CA), Office of the Comptroller (M/COMP/FS), AID, and USIA. In addition, AID, San Jose, Costa Rica, also operates a standard development system.

- o Standard Production Systems - These systems are Wang VS computer systems that are used in support of the overall mission of the owning department/agency (e.g., issue visas, pay employees, control inventories and funds, etc.). Wang VS computer systems are also used in support of M/COMP financial and AID MACS applications. The types of applications supported on standard production systems always include one or more of the standard applications, and may include any mix of office automation and locally developed applications. The majority of VS-90 and VS-100 systems at foreign posts and the Regional Administrative Management Centers (RAMCs) (e.g., RAMC Paris, RAMC Bangkok, and RAMC Mexico City) fall into this category.

- Non-Standard Software Production Systems - Wang VS computer systems that are essentially identical to standard production systems with the exception that standard applications are not supported. The types of applications executed on non-standard production systems may be any mix of office automation and locally developed applications. The majority of the domestic Wang VS systems fall into this category, as well as the majority of Wang VS-15 through VS-80 systems which are currently installed overseas.

- OIS/Alliance Systems - Wang OIS or Alliance computer systems are used to operate ADP applications in support of the overall mission of the owning department/agency. At foreign posts, these systems are used much the same as standard production systems except that none of the standard applications that are described in Section J, Attachment XVI, are implemented on these systems. In some cases, the owners of these systems operate locally developed applications that perform functions that are similar to the standard applications. At domestic locations, these systems are used in the same manner as non-standard production systems. The majority of these systems are used only for office automation. Less than 100 have any ADP workload, and the ADP applications that are executed are developed in the BASIC programming language.

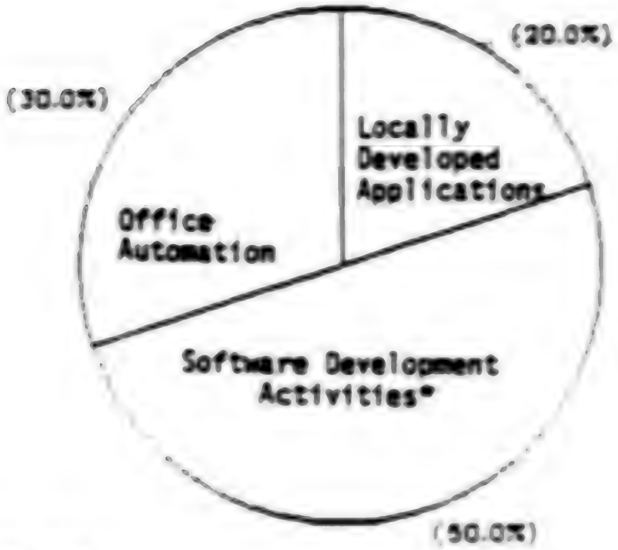
- o WPS Systems - Wang WPS systems are used to provide word-processing support to the owning department/agency. The conversion requirement for these systems is limited to word-processing document and glossary files.

- o Personal Computers - Wang personal computers (PCs) are used to provide varying degrees of computing, office automation and word processing to department/agency professional and administrative staff. The BASIC programming language, dBASE III, and LOTUS 1-2-3 are provided by the Wang contract. Some organizations and individual users have acquired various versions of other programming languages (e.g., COBOL and FORTRAN), dBASE II, and other third party applications. The personal computers will not be converted because the operating system MS/DOS is a Section C requirement. The current software packages are then assumed to be compatible. For those current source systems (other than PC's) moving to a target PC, no conversion requirement is envisioned under this contract.

Figure CC-2-2 illustrates the percentage of machine resources (CPU, memory, DAS and I/O utilization for terminals and printers) typically used by the different application types (e.g., standard, locally developed, and office automation) for some of the above computer system categories.

Note that the requirements for project planning and the conversion approach stated in this and the remaining subsections of Section CC rely on the definitions of application types, computer system categories, and the percentage of machine resource utilization statistics that are presented in this subsection.

STANDARD DEVELOPMENT SYSTEMS



*not an application type

STANDARD PRODUCTION SYSTEMS

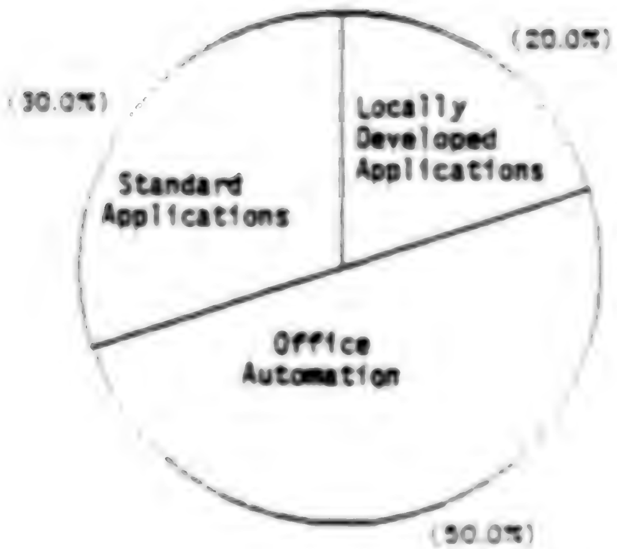
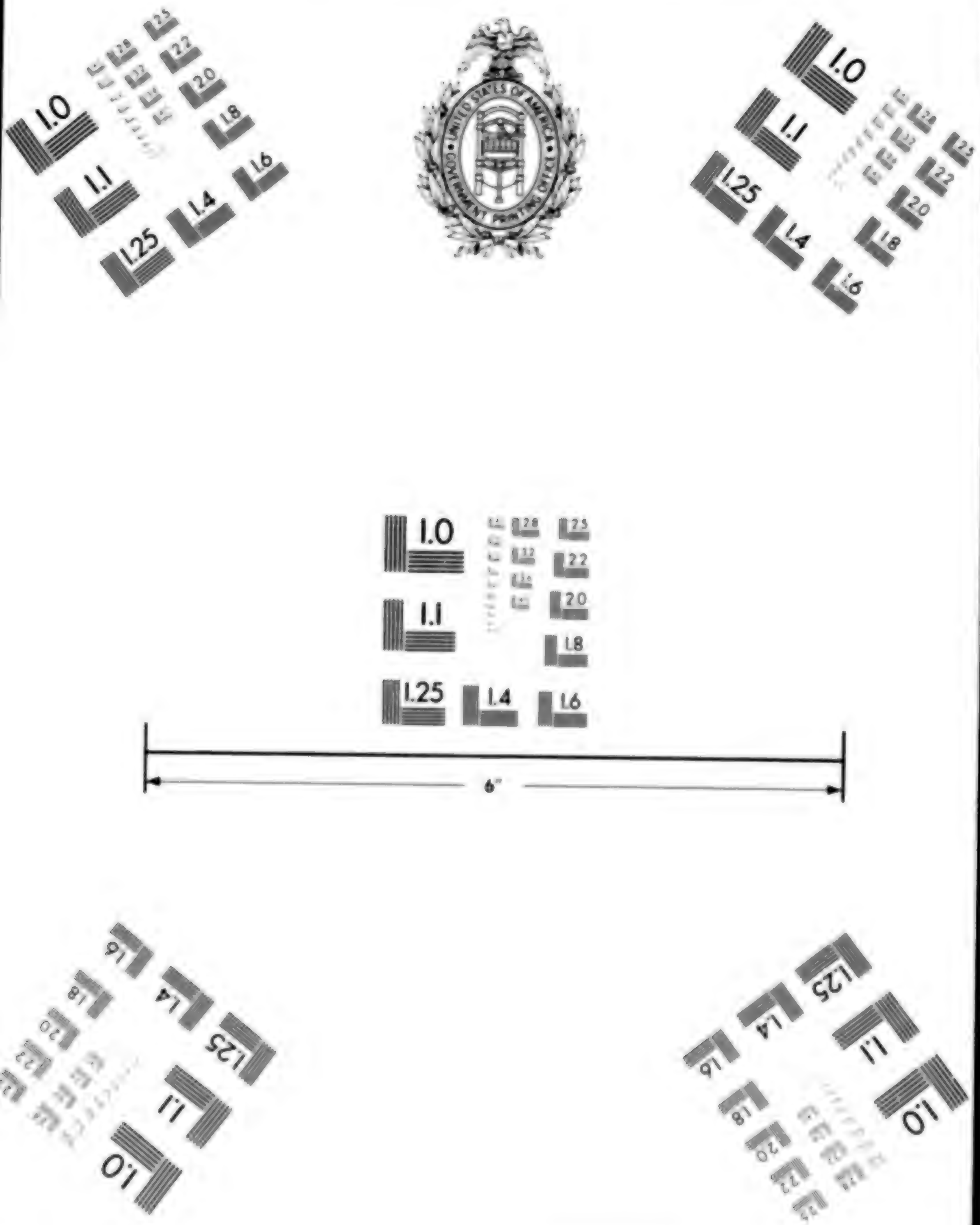


Figure CC-2-2
Machine Resource Utilization
(1 of 3)


1.0
1.1
1.25
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1.6
1.8
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2.2
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2.8
3.2
3.6
4.0
6"

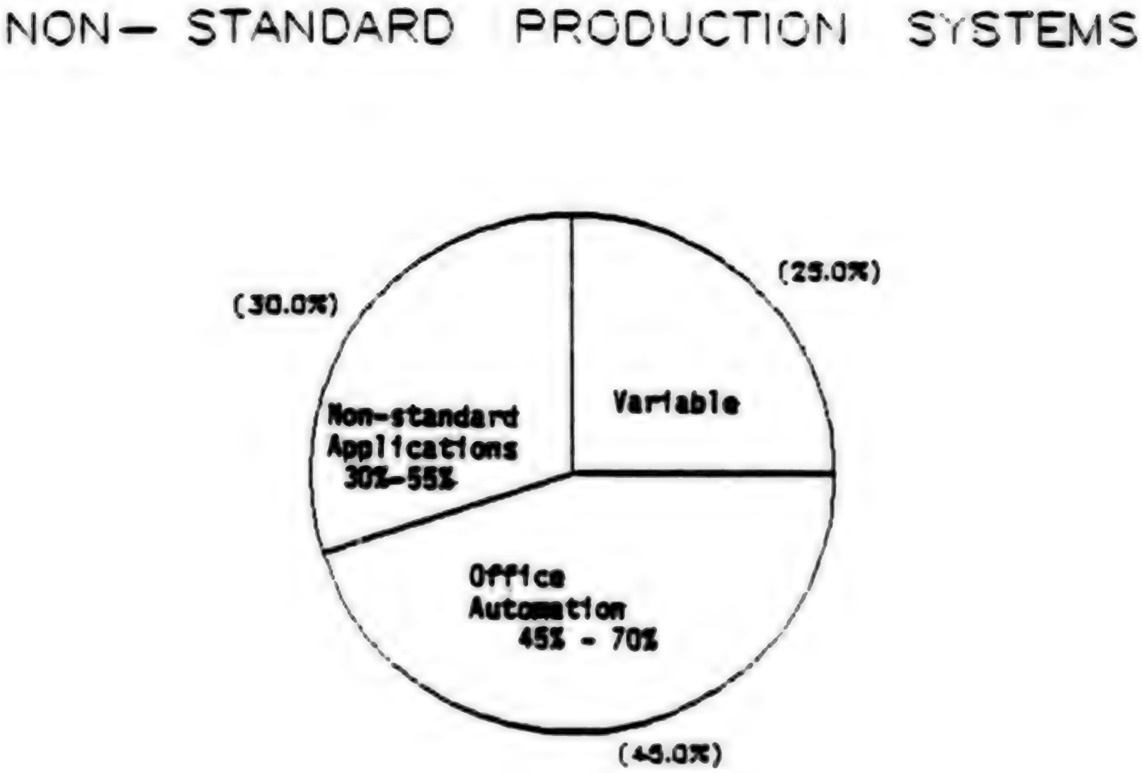
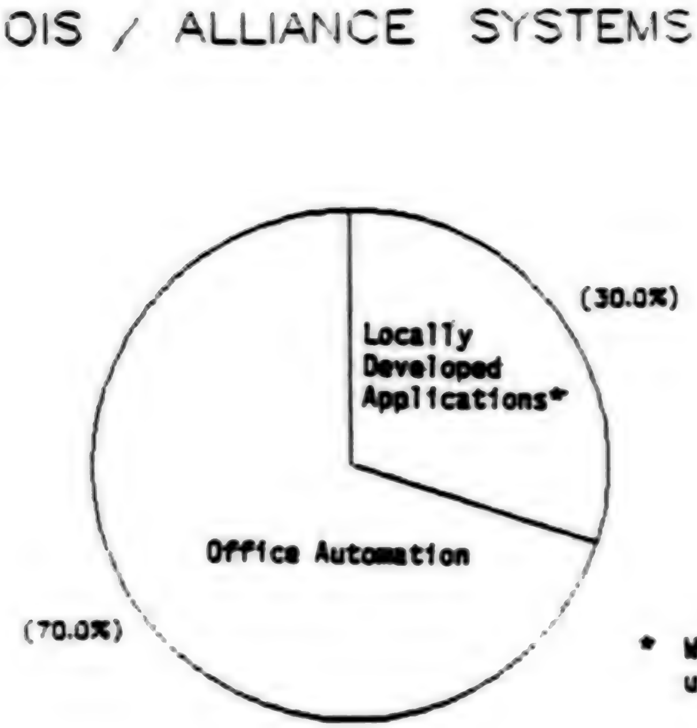


Figure CC-2-2 (cont)
Machine Resource Utilization
(2 of 3)



* When implemented, else used for office automation

OIS/ALLIANCE SYSTEMS

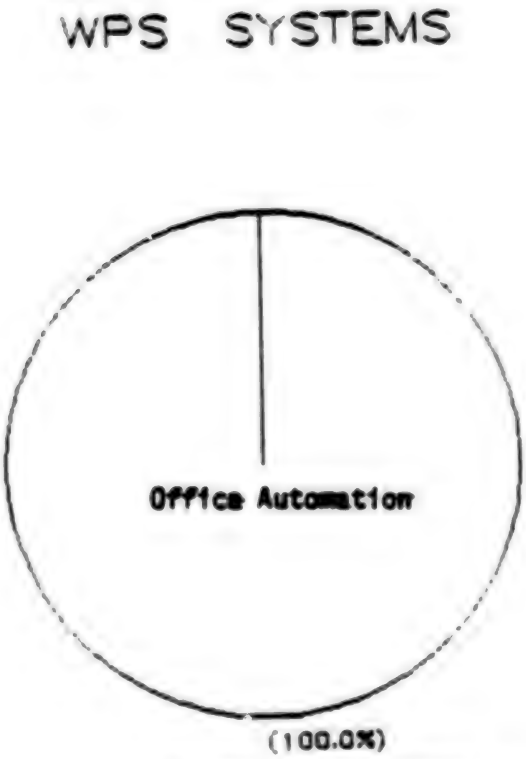


Figure CC-2-2 (CONT)
Machine Resource Utilization
(3 of 3)

CC.3 ENVIRONMENT

The ADP/WP environment is described in two primary subsections: CC.3.1 addresses the current environment and CC.3.2 addresses the target environment.

CC.3.1 Current Environment

The following paragraphs contain detailed information concerning the current environment.

CC.3.1.1 Hardware

The current ADP environment of the Department of State and the associated agencies consists of the following Wang equipment types:

- o VS Computer Systems - VS-100, VS-90, VS-80, VS-85 TEMPEST, VS-65, VS-45, and VS-15;
- o Office Information Systems and Alliance Computer Systems - OIS-145, OIS-140 and OIS-140 TEMPEST, OIS-135 TEMPEST, OIS-130, OIS-115 and OIS-115 TEMPEST, OIS-105, OIS-60, OIS-50, OIS-40, AL-7550 TEMPEST, and AL-250;
- o Word Processing Systems - WPS-30, WPS-25 and WPS-25 TEMPEST, WPS-20 and WPS-20 TEMPEST, and WPS-5;
- o Personal Computer Systems - PC and PC TEMPEST.

Section J, Attachment IX, Installation Schedule, provides a complete list of the current environment equipment by department/ agency organization mnemonic and code. This attachment is referenced in other sections of this document, as necessary, to identify replacement systems and installation/conversion dates. Summary sheets are included in Attachment IX that provide totals for each of the department/agencies, and a grand total summary for all equipment currently installed.

Throughout Attachment IX, both the current equipment and the target equipment are expressed in configuration categories. The nomenclature for the current configuration categories is derived by grouping Wang equipment into similar workload categories. Figure CC-3-1 illustrates the placement of current Wang systems configurations into current environment categories.

With regard to conversion, no further differentiation is made in Section CC between TEMPEST and non-TEMPEST certified equipment. The exception is that proposed Contractor personnel must comply with the security requirements necessary for facility and information access (see Subsection C.5.1).

CC.3.1.2 Software

The following paragraphs describe the software supporting the current hardware.

CC.3.1.2.1 Operating Systems

Following are the operating systems used by equipment type. The version level indicated is the one most commonly used. Higher or lower versions may exist.

CURRENT WANG SYSTEMS PLACEMENT INTO CURRENT SYSTEM CATEGORIES	
CURRENT SYSTEM CATEGORY	CURRENT PROCESSOR MODELS
cv1	VS-15
cv2	VS-25, VS-45
cv3	VS-65, VS-80
cv4	VS-90, VS-85, VS-85T
cv5	VS-100
co1	PC, PCT
co2	WPS-5, WPS-20, WPS-20T, OIS-40 OIS-50, OIS-105, OIS-105T
co2	OIS-60, OIS-115, OIS-115T
co3	WPS-25, WPS-25T, WPS-30, WPS-30T, OIS-125, OIS-130 OIS-135T
co4	OIS-140, OIS-140T, OIS-145 AL-250, AL-7550T

FIGURE CC-3-1

EQUIPMENT TYPE	ACRONYM	VERSION
VS	VS	6.4
OIS	OS	9.9
ALLIANCE	OS	5.9
WPS	n/a	8.8
PC	MS/DOS	3.0

CC.3.1.2.2 Compilers

Following are the compilers used by equipment type. The version level indicated is the one most commonly used. Higher or lower versions may exist.

EQUIPMENT TYPE	LANGUAGE	VERSION
VS	COBOL	3.6.3
	BASIC	3.4.2
	ASSEMBLY	1.9.2
OIS	BASIC	3.L
ALLIANCE	BASIC	6.I
PC	BASIC	V1.0.2

In addition to these compilers, FORTRAN and PL1 compilers are provided for VS systems through the current contract. These languages, though not used for any of the standard applications, may be used by some organizations for locally developed applications. Also, Assembly, COBOL and Fortran compilers are available for PCs; however, PC conversion is not required as current software packages are assumed to be compatible with future software packages as stated in Section C.

CC.3.1.2.3 Proprietary Software

The following proprietary software packages are provided through the current contract to requesting department/agency users:

- Computer Aided Programming (CAP),
- MINITAB,
- LOTUS 1-2-3, and
- Alliance Visual Memory.

Descriptions of these packages are provided in Section J, Attachment XIX. Other proprietary software may have been acquired by other means.

There is no conversion requirement for proprietary software; however, interfaces must be provided to allow the functioning of the proprietary package.

CC.3.1.2.4 Data Base Management Systems

The following data base management systems (DBMSs) are provided through the current contract to requesting department/agency users:

- VS TOTAL,
- dBASE II, and
- dBASE III.

Descriptions of these products are provided in Section J, Attachment XIX. Other DBMSs, such as RESPONSE-R, may have been acquired through other means.

CC.3.1.2.5 Application Software

Descriptions of standard applications are provided in Section J, Attachment XVI, VS Standard Applications. In addition to these, many local applications have been developed to meet the needs of the particular site.

CC.3.1.3 Facilities

The majority of the larger foreign and domestic sites (e.g., large foreign posts, offices operating standard development systems, etc.) are installed in conventional ADP facilities where the temperature, humidity, noise and vibration levels, and levels of atmospheric contaminants are suitably controlled for sensitive ADP equipment. The remaining sites and individual equipment types (e.g., small stand-alone VS systems, OIS/Alliance, WPS and PCs) are installed as office equipment and, therefore, are subjected to a much wider variance of environmental conditions.

At the majority of domestic sites, and many of the recently constructed posts in the technologically advanced countries, the office environment is quite adequate for the current equipment. This is not the case for some of the foreign posts.

A few of the post buildings supplied to the U.S. Government for use as embassies are historical landmarks of the host country, and host country usage provisions or other considerations prohibit the embassy staff from making any structural changes to accommodate ADP equipment. Such buildings often are 50 years or older, and provide a less than satisfactory environment for the ADP equipment. In other post locations where the facilities are adequate, external factors such as power, atmospheric pressure, pollution, and noise levels often impact ADP equipment performance.

Offerors must describe, in their proposals, how their recommended conversion approaches will address the above-mentioned facility issues during equipment installation, conversion and parallel operation.

CC.3.1.4 Processing Modes

The majority of ADP applications on all equipment types operate in foreground mode (interactive). In the VS and OIS/Alliance systems, background processing (batch) is predominately called from the foreground environment or operator interface for routine report production, file copy and backup/restore operations.

On the OIS/Alliance and WPS systems that are used exclusively for word processing, the printing of documents is the only activity that can be considered to be a batch process. However, the initiation of the print request is always submitted interactively.

CC.3.1.5 ADP Conventions and Standards

The majority of department/agency organizations operate in an open shop development environment. This means that the software developer is free to employ whatever methods, techniques and conventions the developer wishes to use, provided the responsible system manager approves. In most cases, approval is granted. Software development standards are used by A/ISO, M/COMP/FS, CA, and most of the other organizations operating VS standard development centers.

CC.3.1.6 Privacy and Security

With the exception of the Classified Information Handling System (CIHS) (described in Section J, Attachment XVI) and an increasing number of TEMPEST certified equipment, existing Wang equipment and applications operate in an unclassified environment. Conventional system access and user-Id/password protection is applied to all department/agency information subject to the Privacy Act of 1975 and all other data deemed by the owning department/agency to be of a proprietary nature.

CC.3.1.7 System Complexities

This subsection describes the system complexities of:

- o ADP applications on VS systems,
- o ADP applications on OIS/Alliance systems, and
- o Word Processing on all equipment types.

ADP applications on OIS and Alliance systems are discussed as one category due to the similarities in equipment size, operating systems, number and type of applications supported. The word-processing application is discussed without regard to equipment type since it is functionally equivalent and compatible on all equipment types.

The Offeror's proposal must describe how the system complexities presented in this subsection will be addressed by the Offeror's proposed conversion methodology, conversion tools/aids, and conversion techniques.

CC.3.1.7.1 Data Processing Applications on VS Systems

The following system complexities could have a serious impact on the program and file conversion effort.

1. The liberal use of vendor extensions to COBOL and BASIC in the majority of applications.

2. The extensive use of both statically and dynamically linked subroutines (Wang VS User Subroutines and User-Written Subroutines) to provide common OS and file management system interfaces, and other specialized program services.

3. The use of the Controlled User Environment (CUE) application on overseas and some domestic VS systems (reference Section J, Attachment XVI).

4. The use of Wang DMS, TOTAL, RESPONSE-R and other hybrid data base management systems.

Wang VS COBOL, like most vendor-supplied languages, provides an assortment of language extensions to facilitate operations in the unique environment provided by the hardware and system software. The features of the language that most impact conversion are those involving the use of compressed files and terminal handling (display screen write/read and function key handling). The conversion requirement for Wang VS COBOL is to provide functionally equivalent capabilities.

Wang VS BASIC includes numerous language extensions to improve both the power of the language and the language's ability to interact with the hardware and system software environment. VS BASIC also is not source compatible (transportable) between the current environment machine types. The conversion requirement for Wang VS BASIC is to provide functionally equivalent capabilities.

Note that all of the VS standard applications and the vast majority of VS locally developed applications are implemented in VS COBOL. VS BASIC is typically used for small end-user oriented applications.

Compressed files are a feature of the VS system software (e.g., file management system). Compressed files may be used by any of the programming languages and the vendor-supplied applications and utilities (e.g., the DBMS, WP application, menu application, etc.). File compression is accomplished by using an additional byte per character to indicate that compression is enabled/disabled and provide the number of times the object character is to be repeated. Thus, a string of the same character (e.g., blanks, "0", etc.) can be represented by the occurrence of two characters. The conversion requirement for Wang files, regardless of type, is to provide functionally equivalent capabilities.

Section J, Attachment XVII, Wang VS User Subroutines, provides a description of these Wang-supplied subroutines. These subroutines are not atypical of any such vendor-written subroutines provided by the majority of equipment or system software vendors. However, the conversion of such subroutines often complicates a conversion effort due to the explicit relationship between the subroutine and the architecture of the hardware or system software. The conversion of

Wang User Subroutines will require the vendor to provide functionally equivalent capabilities.

The Wang user-written subroutines (useraids) are a collection of Wang client-written subroutines that are neither supported nor documented by Wang Laboratories, Inc. The useraids are accepted by Wang from clients; then, as a courtesy to the clients, are included on system software release tapes. Documentation for the useraids is provided either with the source code or through Wang user group publications. Any number of these subroutines may exist at each VS site. The release levels of the useraids varies from site to site depending on the care taken by the local system manager to keep the useraids updated. The conversion requirement for useraids is to provide functionally equivalent capabilities.

The conversion requirement for both Wang VS User Subroutines and useraids are to either: (1) provide functionally identical subroutines, or (2) modify the calling program in such a manner as to eliminate the need for the function performed by the subroutine.

The Controlled User Environment (CUE) application (reference Section J, Attachment XVI) is used on all foreign post VS standard production systems as the means to package and control the production environment of VS standard applications. CUE controls the logical/physical assignment of files for subordinate applications, provides a facility to create and maintain end-user application menus, and provides a routing mechanism to steer printed output to selected printers. The conversion requirement for the CUE application is to provide a functionally equivalent capability.

The use of data base management systems (DBMSs) is limited to a small number of using offices. The only VS standard application to employ DBMS technology is the Financial Management System (FMS) (reference Section J, Attachment XVI) which uses the VS TOTAL DBMS.

Some locally developed applications use TOTAL, RESPONSE-R, and SPEED-2. However, requirements to convert these applications have not been established at this time. It is anticipated that the conversion requirements for applications using these DBMSs will be determined during the development of SCPs during Phase III of the conversion effort.

CC.3.1.7.2 Data Processing Applications on OIS/Alliance

The applications that have been developed are implemented in BASIC and use conventional files. Fewer than 100 of the 433 OIS/Alliance systems have a significant number of programs and data processing files to convert.

The only significant complexity is OIS/Alliance BASIC. The language includes numerous extensions to improve both the power of the language and the language's ability to interact with the hardware and system software environment. OIS/Alliance BASIC also is not source compatible between the current environment machine types. The conversion requirement for OIS/Alliance BASIC is to provide functionally equivalent applications on the target environment systems.

CC.3.1.7.3 Word Processing on all Equipment Types

The Wang Word Processing application (WP) is functionally compatible on all equipment types. The conversion requirement for WP document files is to produce identically formatted output (printed) documents. (Costs for this are to be proposed - see Paragraphs CC.5.1.4 and B.5) The initial conversion requirements do not include conversion of WP documents. However, for evaluation purposes, Offerors should consider future conversion requirements for WP documents to be target system dependent and should utilize the profile provided in Section J, Attachment XIII, Figure 8.

The Wang Glossary facility permits a user to create an automatic procedure (e.g., a glossary) that is used to control the construction or modification of WP documents. Glossaries are very frequently used on all equipment types, and more than 40 are standardized (e.g., centrally collected and distributed, maintained and distributed to other ADP centers). The conversion requirement is to provide functionally equivalent capabilities. The initial conversion requirements for WP glossaries are specified in Paragraph CC.6.4, Figure CC-6-3. For evaluation purposes, Offerors should consider future conversion requirements for WP glossaries to be target system dependent and should utilize the profile provided in Section J, Attachment XIII, Figure 8.

CC.3.2 Target Environment

Refer to Section C for the detailed requirements for the target environment equipment, system and support software, and training other than end-user training in the converted applications.

CC.3.2.1 ADP Center Personnel

Section J, Attachment XIII, Figure 6, describes the type and number of users per target computer system configuration.

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CC.4 CONVERSION PLANNING, MANAGEMENT, EXECUTION, AND ASSUMPTIONS

The following subsections and paragraphs provide guidelines and requirements for the planning, management and execution of the conversion project, as well as assumptions pertaining to the conversion of system types.

CC.4.1 Conversion Planning

The planning, execution, and control of conversion activities associated with this contract is oriented to a predefined hierarchy of conversion plans. This hierarchy is characterized by a specific order of precedence and the integration of lower level plans at successively higher levels. The conversion plan hierarchy, in descending order of precedence, is as follows:

- o Master Conversion Plan (MCP);
- o Group Conversion Plan (GCP); and
- o Site Conversion Plan (SCP).

There is a one-to-many relationship between a plan at any level in the hierarchy, with plans at the next lower level. In other words, there is one Master Conversion Plan for this contract which will be supplemented and expanded by many Group Conversion Plans, each of which can be supplemented and expanded by many Site Conversion Plans. Section J, Attachment XI contains definitions of these conversion plans.

CC.4.1.1 Master Conversion Plan (MCP)

The MCP will provide for the definition, establishment and implementation of the following project management processes, plans, and management tools, which will be used to refine and manage the total conversion effort:

- Contractor Management Process
- Government Management Process
- Project Reporting Process
- Master Conversion Plan (MCP) Review and Amendment Process
- Group Conversion Plan (GCP) Review and Approval Process
- Site Conversion Plan (SCP) Review and Approval Process
- Quality Assurance (QA) Plan
- User Training Plan
- Software Configuration Management Plan (SCMP)
- Work Package Monitoring and Tracking System (WPMTS).

Offerors must submit a comprehensive draft of the MCP in their proposals.

CC.4.1.2 Group Conversion Plan (GCP)

One GCP will be produced for selected groups of sites within major department/agency organizations. During the GCP development process, the Government will identify and schedule the conversion of the Government computer sites.

The purpose of a GCP is to focus on a common grouping of computer sites to provide an effective approach to manage and perform software conversion within that group. A tentative listing of groups is provided in Paragraph CC.6.2.1, Figure CC-6-2. Examples of groups might include:

- DOS Foreign Posts/Bureau of Inter-American Affairs (ARA);

- Department of State Bureau of Consular Affairs domestic sites; and
- AID domestic sites.

Each GCP will identify the particular mixture of conversion approaches to be used to accomplish conversion, and provide an installation and conversion schedule for the applications and sites included in the group.

The mixture of conversion approaches will describe the means by which conversion is to be accomplished (e.g., use of conversion centers, conversion teams, etc.), and will describe the Government's and Contractor's participation in the execution of the site conversion tasks.

Offerors must submit in their proposal, a single comprehensive draft of the GCP that encompasses the Initial Development Sites. Further instructions for this requirement are presented in Subsection CC.6.4.

CC.4.1.3 Site Conversion Plan (SCP)

For each Group Conversion Plan (GCP), a subordinate SCP will be developed for each site covered by that GCP. Each SCP will detail the requirements and responsibilities for the conversion of computer systems, applications, data files, WP documents, and glossaries associated with the particular site. The SCP will also define the user training plan for training in the use of converted applications.

SCPs developed to guide site conversion will include a firm-fixed-price (FFP) quotation for that portion of the work to be performed by the Contractor. After SCP review and approval and Government acceptance of the quotation, the site will be converted.

In order to utilize the firm-fixed-price approach to each site's conversion, the Offeror must propose a firm-fixed-pricing methodology (which will be used to set the prices for each SCP) in the proposal. Instructions for proposing this firm-fixed-pricing methodology are presented in Section L.

Offerors must submit in their proposal, comprehensive SCPs associated with the Initial Development Sites. Further instructions for this requirement are presented in Section L, Paragraph L.1.3.7.

Offerors must also submit in their proposals, a fairly comprehensive SCP for a typical foreign standard production and domestic non-standard production site. For evaluation purposes, a typical foreign site would be represented in Section J, Attachment IX as follows:

CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT Year 5
co1 (15)	co1 (15)	co1 (15)	co1 (15)	co1 (15)	co1 (15)
co2	co2	co2	--	--	--
co2	co2	co2	co2	co2	--
cv5	cv5	cv5	*Q1C6	C6	C6

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For evaluation purposes, a typical domestic site would be represented in Section J, Attachment IX as follows:

co1	co1	co1	co1	co1	co1
(5)	(5)	(5)	(5)	(5)	(5)
co2	co2	co2	co2	--	--
co2	co2	co2	co2	--	--
co2	co2	co2	co2	co2	co2
co2	co2	co2	co2	co2	co2
co4	co4	co4	*Q1C5	C5	C5
co4	co4	co4	--	--	--

These sample SCPs must address all of the conversion and acquisition requirements throughout contract life as represented in Section J, Attachment IX, and assume that each system to be converted resembles the applicable profile for system categories presented in Section J, Attachment XIII. The remaining Subsections of CC.4 and Subsection CC.8.4, plus the assumptions in Section B describe the requirements for preparation of SCPs.

CC.4.2 Project Approach

The Government plans to accomplish the installation of new equipment and the conversion of existing systems using a three-phased approach that supports both the Initial Conversion Requirements and the Future Conversion Requirements described in Section CC.1. The three phases in this approach are defined as follows:

- Phase I: Initial Conversions,
- Phase II: Preparation for Future Conversions, and
- Phase III: Future Conversions.

CC.4.2.1 Phase I (Initial Conversions) Overview

This phase consists of the implementation of high-level project and conversion planning, the provision of conversion training to department/agency management and technical staff, the conversion of the standard applications and glossaries on standard development systems, and the inception of parallel operation of target and existing development systems.

During Phase I, the Contractor shall:

a. Finalize the MCP.

b. Perform conversion management and technical training.

c. Perform initial conversions of ADP applications and WP glossaries for six new standard development systems.

d. Conduct side-by-side operation of six new standard development systems with current development systems.

After contract award, the draft MCP, to be presented as part of the Offeror's proposal, shall be modified and finalized as requested by the Government. This final MCP shall guide all subsequent conversion activities.

The conversion training conducted in Phase I will provide Department of State and agency management and technical personnel with knowledge of the Contractor's conversion methodology, tools and techniques, and management approach.

Conversion will be required during Phase I for the standard appl'cations and glossaries identified at key development sites in Subsection CC.6.4. Following conversion of the standard applications and glossaries, parallel operation of the current and target development systems will begin at the sites identified in Subsection CC.6.4. The conversion of these applications and glossaries may occur before the final completion of the MCP. As required by the Government, Offerors shall develop a GCP and subordinate SCPs to manage the conversion of the applications and glossaries on the newly acquired development systems at these sites, then convert the applications and glossaries using the guidelines and schedules provided by these initial conversion GCP/SCPs.

CC.4.2.2 Phase II (Preparation for Future Conversions) Overview

Phase II consists of intermediate-level project management and conversion planning for selected groups of sites which are to be converted as part of a future conversion schedule, as well as the preparation of any required conversion facilities and allocation of resources for use during Phase III.

During Phase II, the Contractor shall:

a. Develop a GCP for each selected group of sites.

b. Acquire and prepare any needed resources and facilities to implement the authorized conversion approach(es).

c. Continue parallel operation of development systems.

One GCP will be produced for each selected group of sites, including applications and glossaries on systems at those department/agency sites. During the GCP development process, the Government will identify and schedule the conversion of the Government computer sites which are shown in the Installation Schedule, Section J, Attachment IX.

The Contractor shall also allocate and prepare necessary resources and facilities as required by the conversion approaches defined in the GCPs. These resources and facilities should be available and operational prior to the start of Phase III.

CC.4.2.3 Phase III (Future Conversions) Overview

Phase III accomplishes the conversion of systems scheduled for replacement according to the Installation Schedule, Section J, Attachment IX. This phase consists of site level conversion planning, the conversion of specified systems, and the provision of end-user training in the converted applications. Future sites to be converted operate non-standard production systems, standard production systems and other system types identified in Section CC.2.

During Phase III, the Contractor shall:

a. Develop an SCP for each unique site identified by a GCP.

b. Convert local applications, data, WP documents and glossaries on systems at a given site using the guidance provided by the SCP.

c. Update existing documentation for locally developed applications in accordance with the SCP.

d. Convert data files associated with standard applications running on standard production systems in accordance with the SCP.

e. Implement Standard Applications and Glossaries (previously converted in Phase I) as designated by the Government for a specific site.

f. Train department/agency site personnel in the usage of any applications that the Contractor converted using the guidelines provided by the SCP.

g. Continue parallel operation of development systems.

Each SCP developed in Phase III will include a firm-fixed-price (FFP) quotation for that portion of the work to be performed by the Contractor. The firm-fixed price will utilize the firm-fixed-pricing methodology presented by the successful Vendor in response to this RFP. After SCP review and approval and Government acceptance of the quotation, the site will be converted.

Training in the converted applications will address the differences in operation between the current and target environments. The differences will include, as a minimum, any changes to application initiation and termination, and changes to the user interface.

Figure CC-4-1 contains the schedule for the accomplishment of the major tasks and milestones within these phases. Parallel operation of development system is shown only in Phase I; it will, however, continue throughout the life of the contract. Figure CC-4-2 illustrates the hierarchy of conversion plans. Section J, Attachment XI contains definitions of the major project deliverables. Note that the "Perform Initial Conversions" task in Figure CC-4-1 is anticipated to be an 18-month effort starting shortly after contract award.

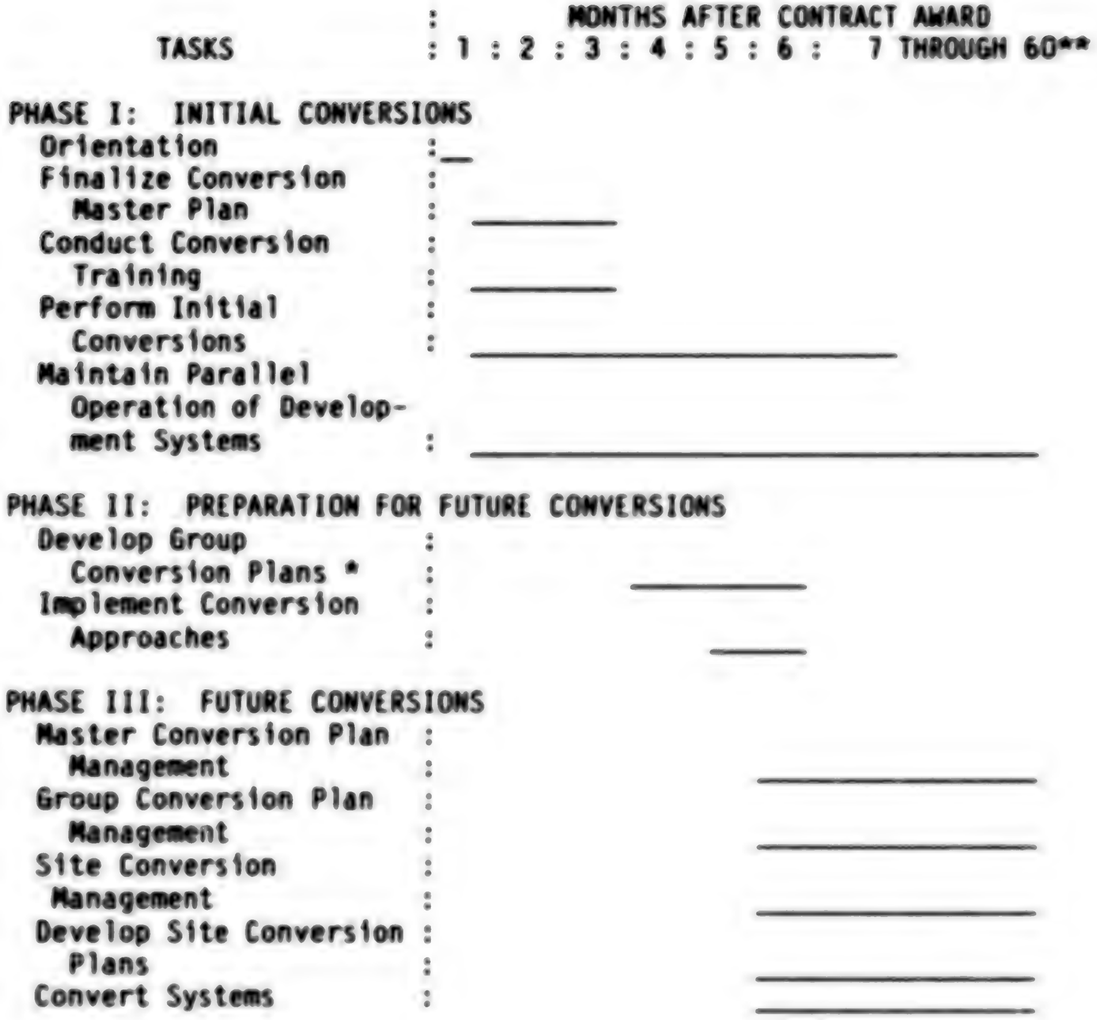
CC.4.3 Project Management

Figure CC-4-3 illustrates the Government's tentative project management organization. The Offeror's proposal must describe how the Offeror will interact with and support the Government's project management organization. The Offeror shall demonstrate its understanding of the project management organization and staffing quantities/skill levels required by this solicitation. The Government's evaluation will assess the Offeror's understanding of the management aspects of the conversion effort, including the quality (e.g., quantity and skill levels) of the Offeror's proposed personnel.

The following subparagraphs describe each of the functional elements shown in Figure CC-4-3.

CC.4.3.1 Conversion Management Board

The COTR will establish and chair a Conversion Management Board (CMB) to oversee and review the conversion effort. CMB members will include representatives from Department of State bureaus, AID, USIA, DOC (FCS), USDA (FAS), and the Contractor.



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* Government approval of a Group Conversion Plan in Phase II may start the Phase III conversion and training tasks subordinate to that GCP.

** Except Phase III conversions which will continue until conversions are completed.

Figure CC-4-1

CONTRACT PHASES AND MAJOR TASKS

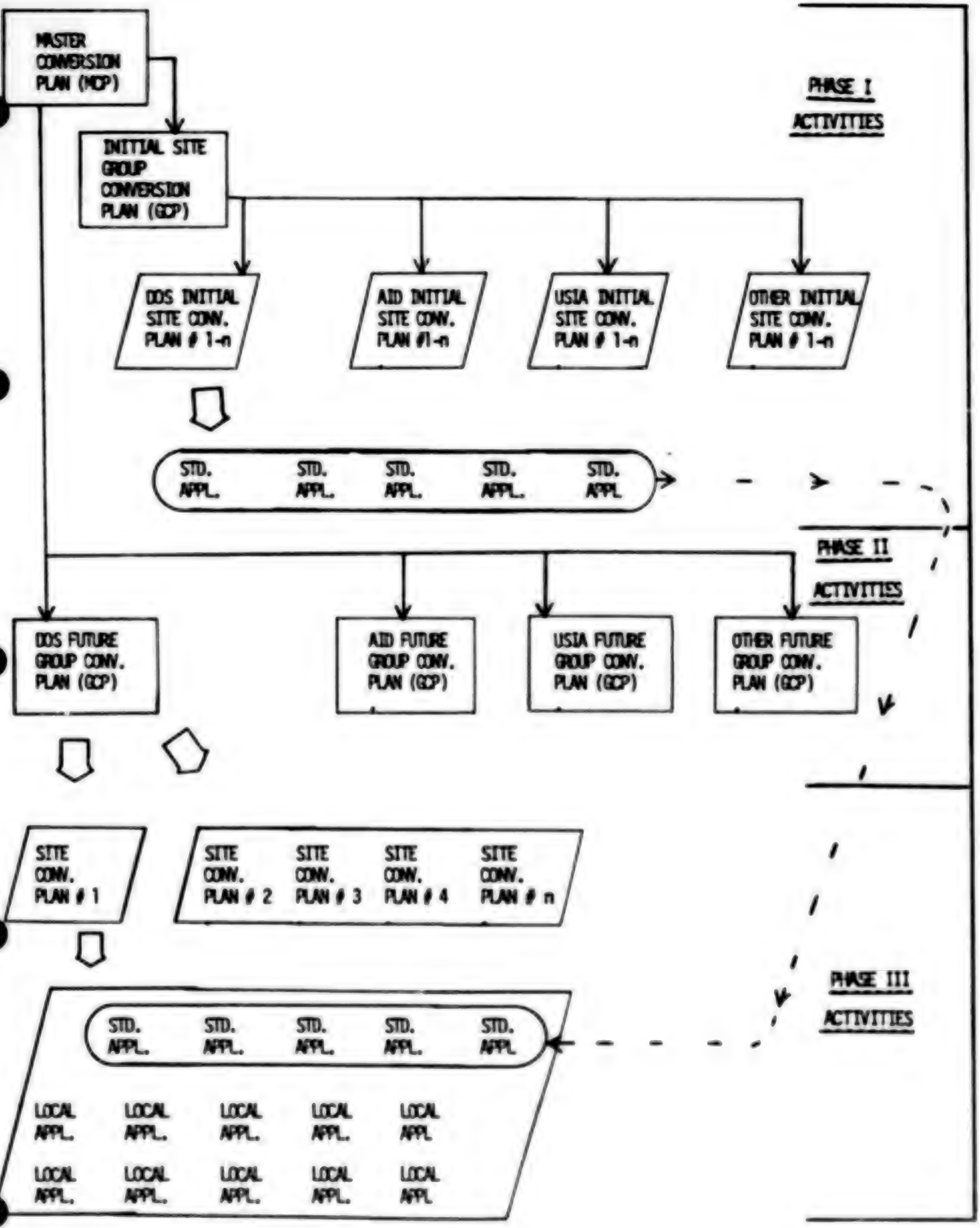

FIGURE CC 2-4

SUMMARY OF CONVERSION PLANNING AND EXECUTION ACTIVITIES

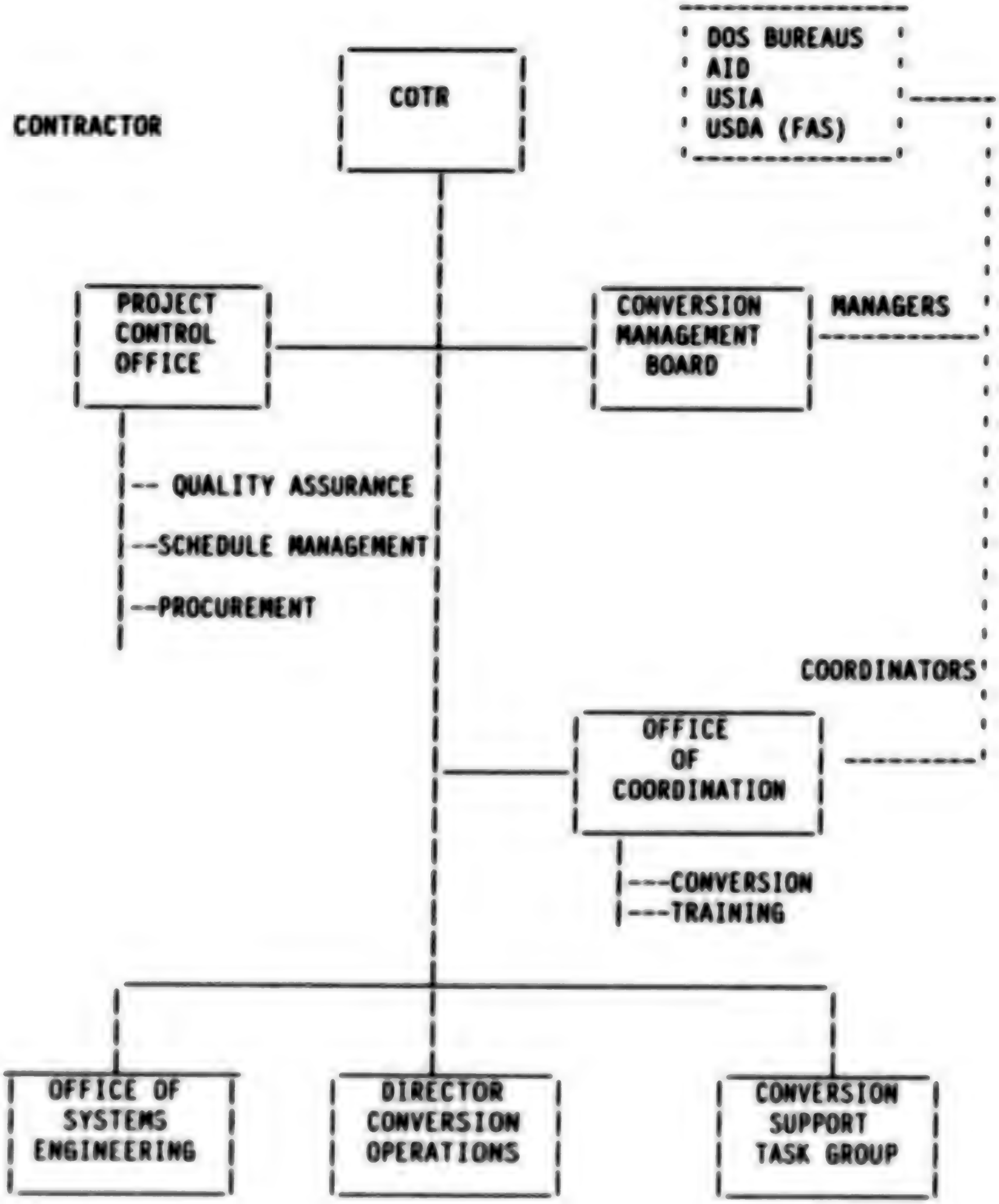

Figure CC-4-3

GOVERNMENT PROJECT MANAGEMENT ORGANIZATION

The CMB will be responsible for advising and assisting the COTR in the administrative management of the project. This will include:

a. MCP review, approval and amendment processes

b. GCP review and approval processes

c. SCP and conversion FFP quotation review and approval processes

d. Review of project-wide quality assurance (QA) and training

e. Hardware acquisition and implementation schedule review and approval.

CC.4.3.2 Project Control Office

The Project Control Office (PCO) will assist the COTR in the general management of the conversion project. The PCO will be responsible for:

a. Conducting weekly conversion status meetings with the COTR, CMB members/representatives, conversion coordinators, and the Contractor. These status meetings will review the progress and status of the various conversion tasks including MCP/GCP/SCP development and site conversions, and identify problems and recommend corrective actions.

b. Communicating and archiving information from/to the COTR and CMB to/from other department/agency organizations and sites and the Contractor. This information includes transmitting COTR/CMB directives, advisements, notices to the Contractor and other department/agency organizations/sites, and the receipt and summarization of project status reports, meeting minutes, and other relevant project communications.

c. Tracking, review, maintenance, and reporting of the various project schedules. The schedules include the master conversion schedule, GCP installation and conversion schedule, SCP installation and conversion schedule, and the training schedule.

d. Maintaining and distributing the various project plans. These plans include the Master Conversion Plan, Group Conversion Plans, Site Conversion Plans, QA Plan, Training Plan, and Software Configuration Management Plan.

e. Maintaining and distributing QA guidelines, procedures, and standards to other Government PM organizations and department/agency organizations, sites, and the Contractor. The PCO also will ensure the compliance of quality assurance standards at all project levels.

f. Track procurement requests, ordering Contractor equipment and services, and overseeing the shipment and receipt of equipment and services.

CC.4.3.3 Office of Coordination

The Office of Coordination will provide for the centralized coordination of conversion and training activities for department/agency organizations and sites. The Office of Coordination will be the principle interface between the department/agency management and the COTR in matters relating to conversion and training.

The department/agency organizations for which GCPs will be developed will provide conversion coordinators to the Office of Coordination. The conversion coordinators will support the development of GCPs and SCPs for their organizations, and participate in the various management reporting, review, and approval processes in matters affecting their organizations.

CC.4.3.4 Director of Conversion Operations

The Director of Conversion Operations will direct the overall site conversion effort. The Director of Conversion Operations will manage the facilities/organizations established by the approved conversion approach(es); and also will be responsible for the centralized maintenance of the SCMS and the WPMTS, and will support and implement or assist in the implementation of the SCMS and WPMTS as necessary to support site conversions.

CC.4.3.5 Systems Engineering

The Office of Systems Engineering will provide centralized facility preparation and target environment equipment technical support necessary to ensure the successful installation, implementation, and parallel operation of the target environment systems.

CC.4.3.6 Conversion Support Task Group

The Conversion Support Task Group (CSTG) will provide centralized technical and conversion support to department/agency sites for the target environment hardware and systems software, and support the use of the Contractor-supplied conversion methodologies (to include conversion procedures), tools and aids.

The CSTG will include senior Government technical staff who have attended the conversion training courses presented during Phase I.

The CSTG will provide a "hot-line" telephone/telegraph service and provide limited on-site support needed to assist local site management and technical staff in the execution of the conversion process.

CC.4.4 Site Conversion Execution

The following subparagraphs contain the detailed specifications for the performance of site conversions. Section J, Attachment XII contains definitions of these tasks.

CC.4.4.1 Work Package Identification and Preparation

A work package consists of an integral unit of software or data (e.g., an entire application, a complete functional unit of an application, a set of word-processing documents, a set of word-processing glossaries, a data base, or a set of files). "Integral" means that work package contents may be treated as a stand-alone entity for the purposes of conversion, testing, and redocumentation. Thus, the actual conversion processes to convert any one work package will typically not be dependent upon the contents of any other work package(s).

It is anticipated that acceptance testing of applications may be dependent upon the successful conversion of several work packages.

The Contractor shall:

a. Assign tracking identifiers to each application's work package(s).

b. Assemble, verify, and list the specific contents of each work package.

c. Provide the work package identifiers and contents lists to the appropriate site conversion management for inclusion in the Software Configuration Management System (SCMS) and Work Package Monitoring and Tracking System (WPMTS).

d. Transport the work packages to the conversion element responsible for the actual conversion.

Acceptance of work packages shall be in accordance with Paragraph EE.4.2.6.1.

CC.4.4.2 Test Data Generation and Validation

The Contractor shall:

a. Generate test procedures to be used in conjunction with work package testing during the conversion process and system testing. The generation of test data and procedures for use in system testing must be completed for each site.

b. Provide the tools necessary to create test data files in a format compatible with the current and target environment programs. These tools shall be provided in accordance with Subsection CC.5.

c. Provide, in conjunction with the test data generator, a test path monitor tool that will provide the means to automatically verify that no less than 60% of the logical paths of target programs are executed by the test data. This tool shall be provided in accordance with Subsection CC.5.

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d. Generate test data files in the same format as the corresponding production data files.

e. Verify that the test data files contain data that are representative of the production data files. The test data must be able to cause execution of no less than 60% of the logical paths of the programs run during system testing.

The acceptance of test data and procedures shall be in accordance with Paragraph EE.4.2.6.2.

CC.4.4.3 System and Application Software Conversion

The conversion of data base schemas, subschemas, query language and/or report writer procedures, etc., shall be considered part of system and application software conversion. The term "program" shall suffice to indicate the aforementioned items.

The Contractor shall:

a. Perform a functional software conversion that shall result in one converted program for each source program of the conversion inventory.

b. Convert all programs to the same or equivalent language (COBOL to COBOL, BASIC to BASIC, etc.). This conversion shall include the updating or writing of source code comments as necessary to describe changes brought about by the conversion. The target environment shall not contain any additional programs or files without the written approval of the COTR. The converted programs must be within 10% of the number of programs and lines of code contained in the current environment excluding comment lines.

c. Verify that the target environment programs produced are the functional equivalent of the current environment programs. Exceptions shall be submitted to the COTR and PCO in writing for review and approval.

d. Replace current utilities with target environment utilities or subroutines that are equivalent. Where functional equivalency is not available for a utility, the COTR and PCO must be immediately notified in writing detailing a solution to the problem. The Contractor may not perform any further work on these utilities or subroutines until receipt of approval from the COTR.

e. Provide the tools necessary to convert current environment programs to functionally equivalent target environment programs. The program conversion tools shall be provided in accordance with Subsection CC.5. The programs or utilities required to perform comparisons between the current and target environment programs must be provided by the Contractor. These tools shall be provided in accordance with Subsection CC.5.

The acceptance of converted software shall be in accordance with Paragraph EE.4.2.6.3.

CC.4.4.4 Data File and Data Base Conversion

Word-processing documents shall be included in the data file conversion process. All requirements applicable to data file conversion shall also be applied to word-processing document conversion. The Contractor shall:

a. Convert the data files and/or data base files to the same format as the corresponding current environment data files. The Contractor shall submit any requirements to change file definitions to the COTR and PCO in writing. The Contractor shall not continue the conversion of the data files and/or data base files requiring format changes until receipt of approval from the COTR.

b. Verify that the converted data files and/or data bases have the same number of records and are identical in content to the current environment data files. The Contractor shall submit exceptions in writing to the COTR and PCO. The Contractor may not continue the conversion of the data files and/or data bases until receipt of approval from the COTR.

c. Provide the tools necessary to convert current environment data files to a format compatible to the converted programs. The file conversion tools shall be provided in accordance with Subsection CC.5.

Acceptance of converted data files, data bases and word-processing documents shall be in accordance with Paragraph EE.4.2.6.4.

CC.4.4.5 Operation Control Language (OCL) Conversion

The conversion of word-processing glossaries and menu generation software shall be considered part of the OCL conversion process in addition to the procedure, or "proc" files, associated with standard and local applications. The terms "operation control language" and "OCL" shall suffice to indicate the aforementioned items.

The Contractor shall:

a. Convert the current environment OCL to provide the equivalent production processing and functionality as the current OCL. The Contractor shall submit exceptions in writing to the COTR. The Contractor may not continue conversion of the OCL until receipt of approval from the COTR.

b. Provide the tools necessary to convert current environment OCL files to target environment OCL files. These tools shall be provided in accordance with Subsection CC.5.

Acceptance of target environment OCL files and word-processing glossaries shall be in accordance with Paragraph EE.4.2.6.5.

CC.4.4.6 Redocumentation

The Contractor shall:

a. For standard application software conversion, update existing user's manuals, system specification and program specification documents to conform to FIPS PUB 38 standards. Remaining existing documentation is to be updated with pen and ink changes to reflect the target environment. Existing documentation for standard applications is available for review in the Reading Room.

b. For standard glossaries, update and re-type existing documentation as necessary to reflect the target environment. Existing documentation for standard glossaries is available for review in the Reading Room.

c. For locally developed application software conversion, update operating procedures and documentation as necessary to reflect the target system environment. All operational manuals and procedures must be updated based upon the specific requirements stated in the SCP. The SCP shall specify the required redocumentation and method of redocumentation to be employed, such as pen-and-ink, online, typed, etc. For evaluation purposes, Offerors should refer to Section B.2.2 for assumptions to complete this task.

d. For data file and data base conversion, provide updated data file and data base documentation as required or necessary for the maintenance of the data file or data base. Any updated documentation must identify the data format or content changes that may have been made as a result of the conversion to the target environment.

e. For OCL conversion, provide updated OCL documentation as necessary for the operation and maintenance of the application. The updated documentation must identify any production processing changes made as a result of the conversion to the target environment.

f. If the quality of the existing documentation is determined by the Government to be inadequate, the Government may optionally elect to have the Contractor provide new documentation. See Section CC.4.4.10 for the optional feature description.

Offerors must submit in their proposal their assessment of the current User's Manuals, System Specifications and Program Specifications for the standard applications to substantiate their firm-fixed price for updating the existing documentation to FIPS PUB 38 standards.

Acceptance of redocumentation shall be in accordance with Paragraph EE.4.2.6.6.

CC.4.4.7 System and Acceptance Testing

All completed work packages shall be tested to ensure that all conversion requirements have been met. The Contractor shall:

a. Test all components and levels of a system or application. The converted programs, files and data bases, and OCL of completed work packages must be run as a unit to ensure error free execution of a system or application. Where a complete application exists as several work packages, application integration level testing also must be performed.

b. Provide the tools necessary to conduct the system testing of completed work packages. The tools shall be provided in accordance with Subsection CC.5.

The Government shall be responsible for the review and acceptance of the system testing based on the data collected in the tracking and reporting of the system testing process, and independent operating tests performed by Government and Contractor personnel.

Acceptance of converted work packages and system level testing shall be in accordance with Paragraph EE.4.2.6.7.

CC.4.4.8 Training

The Contractor shall provide training of selected department/ agency personnel in the vendor's conversion methodology, tools and techniques, as well as end-user personnel in the use of the converted applications. Specific requirements for training end-users and ADP Specialists in systems software and related courses are addressed in Section C, Subsection C.15.

Training shall be provided in accordance with the Training Plan and training schedule included in the SCP. The Contractor shall provide user training that shall review and concentrate on the differences between the current and target environment.

For evaluation purposes, target environment conversion training shall utilize the statistics presented in Figure 6 in Attachment J-XIII.

User training acceptance shall be in accordance with Paragraph EE.4.2.6.8.

CC.4.4.9 Optimization Report

The Contractor shall provide an Optimization Report. The Optimization Report shall describe (by system and application) the specific changes to the converted software, files and data bases, and OCL which result in increased performance, increased level of service to users, or improvement upon the functionality of the systems or applications.

Acceptance of the Optimization Reports shall be in accordance with Paragraph EE.4.2.6.10.

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CC.4.4.10 Develop Application Documentation

At the Government's option, the Contractor shall develop application system documentation. Such documentation includes, but is not limited to: functional descriptions, program specifications, system manager manuals, user's manuals, operator manuals, file/data base descriptions/layouts, and module hierarchy charts.

The Contractor shall develop the documentation in accordance with the applicable department/agency software development standards and procedures, and documentation development guidelines. The Government will provide one copy of the applicable standards/procedures/guidelines for the site(s) where this option is exercised. The Government will then provide the Contractor with any amendments/updates to the standards/procedures/guidelines as they are released to the Government users. It shall be the Contractor's responsibility to maintain the standards/procedures/guidelines and ensure that they contain the latest amendments/updates.

The Contractor shall include, as separate items, the work specifications and cost estimates for performing documentation development in the conversion task description for the redocumentation task. The cost estimates shall be developed in accordance with the approved GCP's SCP pricing guidelines.

Acceptance of completed application documentation shall be in accordance with Paragraph EE.4.2.6.11.

CC.4.4.11 Parallel Operations

The Contractor shall be responsible for all aspects of parallel operations including preparing systems for parallel operations, the actual parallel operations and performing post-conversion maintanance of converted applications.

There are two types of parallel operations which will be required:

a. Standard development system parallel operations. These parallel operations will begin in Phase I on six new and existing development systems. For evaluation purposes, offerors should assume parallel operation of standard development systems to continue for the contact life and utilize the statistics provided in Attachment J-XIII, Figure 7, for the personnel required for parallel operation of the target CS development systems.

b. All other system types. These parallel operations will begin in Phase III. For evaluation purposes, the smooth transition of the current hardware environment to the new environment must be accomplished with the parallel operations periods, personnel categories (per system type), specified in Attachment J-XIII, Figure 7.

The Department of State is faced with extremely limited space, power, air conditioning, and personnel availability. Specific assumptions for the availability of space, power, and air conditioning are listed in Subsection B.2.2. Offerors must propose a viable strategy for parallel operations which includes provisions to address the following assumptions:

- There is no additional space, power or air conditioning at the computer sites to support on-site parallel operations.

- o There are no Government personnel available for the support of parallel operations.

The adequacy of the Offeror's proposed parallel operations strategy will be evaluated for reasonableness and other factors, and will be evaluated for cost (see Sections M and B).

Acceptance of parallel operations support shall be in accordance with Paragraph EE.4.2.6.9.

CC.4.5 Assumptions Applicable to System Types

The following paragraphs address conversion assumptions relevant to the various system types.

CC.4.5.1 Standard Development Systems

Following are the assumptions relevant to the conversion of standard development systems:

a. Standard applications and glossaries developed on systems of this category will be converted in Phase I, will utilize newly acquired development systems, and will precede the conversion of dependent standard production systems.

b. Contractors will be responsible for creating test data files associated with each standard application converted in Phase I.

c. Offices owning standard development systems that are responsible for distributing and coordinating the maintenance activities for standard applications will require long-term parallel operations activities with newly acquired development systems in order to facilitate the maintenance/enhancement of the standard applications on both current and target environment equipment.

d. Software configuration management systems will be implemented at the owning offices to monitor release levels of the standard applications on the dependent standard production systems.

Section J, Attachment XVI, ADP Applications Descriptions, provides descriptions of the standard applications to be converted. Hardcopy listings are available for inspection in the Department of State Reading Room.

A profile of each standard development system is provided in Section J, Attachment XIII, Computer System Profiles. The profile specifies the amount of programs, OCL, and glossaries to be converted.

CC.4.5.2 Standard Production Systems

Following are the assumptions relevant to the conversion of standard production systems:

a. For evaluation purposes, standard production systems are cv4 and cv5 systems located only at foreign sites.

b. Conversions on this system category will occur in Phase III after standard applications and glossaries applicable to standard production systems are converted in Phase I.

c. Conversion of the standard application(s) on standard production systems will be limited to the conversion and verification of the data files used by the standard application(s) since it is assumed that the code and OCL shall have been previously converted on the new development system(s).

Requirements for the conversion of locally developed applications will be determined at the time of site conversion. Descriptions of such locally developed applications are not provided; however, a representative sample is available for inspection in the Department of State Reading Room. For evaluation purposes, profiles of standard production systems are provided in Section J, Attachment XIII, Computer System Profiles. For evaluation purposes these profiles specify the average amount of programs, files, OCL, WP documents and glossaries to be converted. The software statistics presented in the profile do not include code (programs) and OCL for the standard applications; however, the file statistics include standard application files.

CC.4.5.3 Other Operational System Categories

For evaluation purposes, profiles in Section J, Attachment XIII provide average program, file, OCL, WP document and glossary statistics for VS Non-Standard Production Systems (cv1 through cv3 foreign and all cv domestic systems) and OIS/Alliance/ WPS Systems (co2, co3, and co4 foreign and domestic systems).

It is assumed that the conversion of these system categories will occur during Phase III. Descriptions of typical applications operated on these system categories are not provided; however, a representative sample of coding is available for inspection in the Department of State Reading Room.

CC.5 REQUIRED CONVERSION SUPPORT FACILITIES

The following subsections and paragraphs provide general specifications for tools and aids utilized in the conversion process, as well as requirements for the Software Configuration Management System, Work Package Monitoring and Tracking System, and the Development Centers. The Software Configuration Management System, Work Package Monitoring and Tracking System, and each conversion Tool/Aid will be delivered with applicable manuals or publications that fully describe their operation. These manuals and publications will be delivered in camera-ready form plus five (5) copies. All of these items are required conversion support facilities, for which the submission of proposed costs is described in Section B.

CC.5.1 Conversion Tools/Aids

The Contractor shall provide current versions of fully operable conversion tools/aids for the Government's unlimited use during the contract period. These tools/aids shall be delivered within five days of contract award.

The Contractor shall then test the tools/aids as specified by the following subsections, and then optimize the tools/aids to meet the unique requirements presented by the current environment hardware, system software, and design/implementation characteristics of the Government's application software.

The Contractor shall deliver the optimized tools/aids within four (4) weeks after contract award, and a Tools/Aids Optimization Report detailing the programmatic/parametric changes that were applied to the tools/aids. Acceptance of the tools/aids will be in accordance with Paragraph EE.4.3, and acceptance of the Tools/Aids Optimization Report will be in accordance with Paragraph EE.4.3.2.

The Government will provide up to two (2) person weeks of technical support as required to support the tool/aid optimization effort. Vendors must specifically request any additional support for evaluation purposes. Subsequent optimization of the tools/aids may occur after this initial optimization effort. The Contractor or Government personnel may recommend additional optimization in writing to the COTR. After COTR review and approval, the Contractor shall update the tools/aids, and provide the updated copies to the CSTG and the PCO for distribution to department/agency sites.

The Contractor tools/aids shall be subjects of the Conversion Tools and Techniques Training Course defined in Subsection CC.6.3.3.

The Offeror's proposal must thoroughly describe the tools/aids proposed and provide references to verify the Offeror's claims regarding tool/aid capability, performance, and usability. The descriptions of the tools/aids must identify whether the tools/aids are to operated on the current environment, target environment, or both current and target environment systems. The references shall include: company and/or Government agency name, address, contact name and telephone, contract number (if applicable), project name, and a general description of the number and types of applications to which the tools/aids were applied.

The following subsections specify the requirements for conversion tools/aids and the requirements for tool/aid testing.

CC.5.1.1 Test Data Generation Tools/Aids

The Contractor shall provide the automated tools/aids necessary to create test data files in a format compatible with both current and target environment programs. These tools/aids must permit the operator to interactively enter parameters/data, specify the output file name, format (number of fields, number of bytes/characters/bits per field), attributes of the data-items (display, binary, floating-point, etc.), and start/stop ranges of data-items within fields for the automatic generation of records.

The test data file generator tools/aids must permit the specification of up to eight (8) key fields for keyed file types, and permit the specification of start/stop ranges per key field for the automatic generation of records.

The Contractor shall test the test data generation tools/aids. The tests shall include comparisons of operator input specifications to generated files for each current/target equipment type. Means and extremes range testing shall be applied to both record and key field record generation.

The Contractor shall prepare a report describing the tests and the test results (operator parameter input to generated output) within four (4) weeks after contract award. Acceptance of the Test Data Generation Tools/Aids Test Report shall be in accordance with Paragraph EE.4.3.3.

CC.5.1.2 Test Path Monitor Tools/Aids

The Contractor shall provide a test path monitor tool that will provide the means to automatically verify that no less than 60% of the logical paths of target environment programs are executed by the test data.

The Contractor shall test the test path monitor tools/aids. The tests shall verify that no less than 60% of the most frequently used target environment program logical paths are exercised by the test data.

The Contractor shall prepare a report describing the tests and the test results within four (4) weeks after contract award. Acceptance of the Test Path Monitor Tools/Aids Test Report shall be in accordance with Paragraph EE.4.3.3.

CC.5.1.3 Source Program Translator Tools/Aids

The Contractor shall provide the tools necessary to convert current environment programs to functionally equivalent target environment programs. These tools shall convert COBOL to COBOL, BASIC to BASIC, and FORTRAN to FORTRAN for the applicable current environment equipment types.

The program conversion tools used shall be tested by the Contractor. The testing shall include program output comparisons, and there shall be no differences detected between program execution on current versus target environment systems during output comparison. The tools/aids required to perform comparisons also must be provided and tested by the Contractor.

The Contractor shall prepare a report describing the tests and the test results for both the conversion tools and comparison tools/aids within four (4) weeks after contract award. Acceptance of the Language Specific Tools/Aids Test Report shall be in accordance with Paragraph EE.4.3.3.

CC.5.1.4 File Conversion Tools

The Contractor shall provide the tools necessary to convert current environment data files and word-processing documents to a format compatible with the target environment application and word-processing systems.

The tools used to translate WP document files from the current environment equipment to the target equipment shall also be identified as file conversion tools. Offerors must describe, in their proposals, how each of these WP data file conversion tools operate on the various current equipment types (e.g., VS series, OIS, and Alliance).

The tools shall be tested by the Contractor. The testing shall include file and document comparisons on a record-by-record basis, and there may be no differences detected during file/document comparison.

The Contractor shall prepare a report describing the tests and the test results for the tools within four (4) weeks after contract award. Acceptance of the File Conversion Support Tools Test Report shall be in accordance with Paragraph EE.4.3.3.

CC.5.1.5 Work Package Testing Tools

The Contractor shall provide the tools necessary to conduct the system testing of completed work packages. The tools shall provide the capability to verify the functional compatibility of target and current environment systems or applications, and verify the equivalency of the various output files, including report, screen image, and data files.

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The tools used shall be tested by the Contractor. The testing shall include verification of the ability of the tools and programs to provide accurate analysis of the completed work packages.

The Contractor shall prepare a report describing the tests and the test results for the tools within four (4) weeks after contract award. Acceptance of the Work Package Testing Tools Test Report shall be in accordance with Paragraph EE.4.3.3.

CC.5.1.6 Operation Control Language Tools

The Contractor shall provide a description of the methodology and approach to be utilized to convert current environment OCL to functionally equivalent target environment OCL. The Contractor shall also provide any tools or aids which may be used to accomplish the OCL conversion.

The Contractor shall prepare a report describing the tests and the test results for the tools within four (4) weeks after contract award. Acceptance of the Operation Control Language Tools Test Report shall be in accordance with Paragraph EE.4.3.3.

CC.5.2 Software Configuration Management System

Four (4) weeks after contract award, the Contractor shall provide an automated software configuration management system (SCMS) for use on the current VS systems and target environment C1 through C6 systems. At a minimum, the SCMS shall be capable of identifying, by application identifier, the components of the application, their release level(s) and status(es). The components include programs, OCL files, data files and/or data bases, menus and data entry/update/inquiry screens. The SCMS must also be capable of identifying the relationships between the components (e.g., ownership/dependencies in a hierarchical or network format).

The status codes for application components must include one or more of the following conditions:

- o In-development / date to be placed into production
- o In-production / date placed into production
- o Suspended from production / date suspended / retain-drop flag
- o Maintenance frozen / date frozen / date maintenance to resume
- o In-conversion / date conversion started / date expected completion / work package identifier

The SCMS also must provide a component identifier, name, location (e.g., mass-storage file address), and description for each application component.

Acceptance of the SCMS shall be in accordance with Paragraph EE.4.4.1.

The Offeror's proposal must describe the Offeror's approach to software configuration management (including change control) using the SCMS for standard development systems, standard production systems and non-standard production systems (refer to Subsection CC.2). It may be assumed that conversion of standard development systems will occur prior to the conversion of standard production systems. The description also must provide an assessment of the risks, and the methods the Offeror proposes to be used to reduce the risks of applying maintenance or enhancements to application components that are not frozen during the conversion process. It may be assumed that applications may be in production on the current environment and in the conversion process during the same time period.

CC.5.3 Work Package Monitoring and Tracking System

Four (4) weeks after contract award, the Contractor shall provide an automated work package monitoring and tracking system (WPMTS) for use on the current VS systems and target environment systems. At a minimum, the WPMTS shall be capable of identifying, by work package identifier, the components of the work package and their conversion status. The components include programs, OCL files, data files and/or data bases, menus and data entry/update/inquiry screens, test data and procedures, development and support documentation, and word processing document and glossary files.

The WPMTS must permit the work package identifier(s) to be queried by an operator by input of an application identifier, program identifier, or file identifier.

The status codes for application components must include one or more of the following conditions:

- o Maintenance frozen / date frozen / date maintenance to resume
- o In-conversion / date conversion started / date expected completion / work package identifier
- o Conversion location / contact name and phone

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Acceptance of the WPMTS shall be in accordance with Paragraph EE.4.4.2.

The Offeror's proposal must describe the Offeror's approach to work package monitoring and tracking. The description must include the interface between the SCMS and WPMTS for accomplishing change control to application components that are not frozen during the conversion time period.

CC.5.4 Development System Requirements

The Department of State, AID, and USIA currently have standard application development computers, as described in Subsection CC.2. The computers currently installed for these purposes are judged adequate to support the ongoing development activities. Attachment IX, Section J, indicates six new conversion support/development computers to be installed in anticipation of the conversion activities and associated parallel systems maintenance throughout the systems life. Offerors must propose these computers in order to support both the initial conversion requirements described in Section CC.6 and the ongoing side-by-side operation of development computer systems. Note that the Offeror's proposal is to include an additional cost for the operation of these computers which includes, in addition to the facility upgrades, ongoing power and space costs and the added costs of personnel that are required to operate these "parallel" operations development computers, for the duration of the contract life.

The Department of State is faced with extremely limited space, power, air conditioning, and personnel availability. Specific assumptions for the availability of space, power, and air conditioning are listed in Paragraph B.3.4. Offerors must propose a viable strategy for ongoing operations which includes provisions to address the following assumptions:

- The Department of State and other participating Agencies will make available all necessary additional space, power or air conditioning at the current development sites to support ongoing parallel development site operations. Costs for these operations will be assessed as described in Section B.

- The Government will provide the necessary Government personnel in order to support the ongoing operations. Costs for the ongoing operations personnel will be assessed in accordance with Section B. The adequacy of the Offeror's proposed ongoing operations strategy will be evaluated for reasonability and other factors, and will be evaluated for cost (see Sections M and B) for each development site.

CC.6 PHASE I REQUIREMENTS

Phase I accomplishes management and conversion planning for the department/agency level, provides conversion training to department/ agency management and technical staff, and provides for the total conversion of applications and glossaries as described in Subsection CC.2. The requirements included in this subsection are mandatory requirements.

The activities and deliverables of Phase I provide the baseline that shall be used to refine and control the activities and deliverables of the remaining project phases. The four major tasks to be accomplished by the Contractor during Phase I are:

- Finalize the Master Conversion Plan (MCP).
- Perform conversion management and technical training.
- Prepare for and perform conversion of standard applications and WP glossaries identified as initial conversion requirements.
- Begin parallel operation of six newly acquired target development systems with current development systems.

The detailed requirements for these tasks and their deliverables are contained in the following subsections.

CC.6.1 Orientation

Within one week from date of contract award, an orientation will be hosted by main Department of State A/ISO personnel on site at the Department of State offices in Washington, D.C. to familiarize the Contractor with the Department of State and the associated agencies' organization, personnel, and facilities. This session will last one week. The Offeror should state in the proposal any specific information or materials that should be provided at that time.

CC.6.2 Finalize the Master Conversion Plan

The Master Conversion Plan (MCP) shall:

a. Define the major department/agency organizations for which GCPs shall be developed (e.g., agencies, bureaus, offices, posts/missions, etc.).

b. Describe the approach and procedures to be used for the development of GCPs, SCPs, and other associated deliverables for these major organizations.

c. Provide a schedule for the development of GCPs during Phase II.

d. Provide the project management controls and procedures necessary to effectively manage the Phase II and III tasks.

Figure CC-6-1 presents an outline of the table of contents and attachments for the MCP. As a minimum, these topics must be included in the draft MCP (e.g., in the Offeror's proposal). Attachment XIV in Section J provides further guidance. It is required that the Offeror's proposal include a comprehensive draft of the MCP. The Government shall provide to the Contractor, at contract award, a detailed set of comments and recommendations for inclusion in the final preparation of the MCP.

The Contractor shall provide the final MCP within four (4) weeks after date of award. Acceptance of the MCP shall be in accordance with Paragraph EE.4.1.

The Contractor shall perform the following fifteen (15) tasks in order to complete the MCP.

CC.6.2.1 Finalize GCP Development Schedule

This task shall finalize the groupings of sites for which GCPs shall be prepared during Phase II. A tentative listing of the department/agency groups is included in Figure CC-6-2.

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SECTIONS

1. PURPOSE
2. IDENTIFICATION OF GROUP CONVERSION PLAN (GCP) GROUPINGS
3. CONVERSION APPROACH/IMPLEMENTATION GUIDELINES
4. GCP DEVELOPMENT PROCEDURES
5. SITE CONVERSION PLAN (SCP) DEVELOPMENT PROCEDURES
6. SOFTWARE CONFIGURATION MANAGEMENT PLAN
7. GCP APPROVAL PROCESS
8. GCP REVIEW PROCESS
9. SCP APPROVAL PROCESS
10. CONTRACTOR MANAGEMENT PROCESS/TEAM
11. GOVERNMENT MANAGEMENT PROCESS/TEAM
12. SCHEDULE OF GCP DEVELOPMENT

ATTACHMENTS

A. Conversion Support Task Group (CSTG) Roles and Responsibilities
B. Master Conversion Plan (MCP) Manager Roles and Responsibilities
C. GCP Manager Roles and Responsibilities
D. SCP Manager Roles and Responsibilities
E. Contractor Roles and Responsibilities
    1. MCP
    2. CTSG
    3. GCP
    4. SCP
F. GCP Development Procedures
G. SCP Development Procedures
H. Draft Conversion Task Packages (CTP)
I. SCP Pricing Guidelines and Worksheets
J. Software Configuration Management Plan
K. Quality Assurance Plan
L. End User Training Plan
M. Reporting Requirements

Note: The attachments listed above refer only to the MCP and they should not be confused with attachments in Section J of this RFP.

Figure CC-6-1

MASTER CONVERSION PLAN DRAFT OUTLINE

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DEPARTMENT/AGENCY GROUPS

Initial Development Sites*

DOS Foreign Posts/Bureau of Inter-American Affairs (ARA)
DOS Foreign Posts/Bureau of European Affairs (EUR)
DOS Foreign Posts/Bureau of East Asia and Pacific Affairs (EAP)
DOS Foreign Posts/Bureau of Near Eastern and South Asian Affairs (NEA)
DOS Foreign Posts/Bureau of African Affairs (AF)
DOS Foreign Posts/Classified Information Handling Systems (CIHS)

DOS Domestic Regional Bureaus/Bureau of Inter-American Affairs (ARA)
DOS Domestic Regional Bureaus/Bureau of European Affairs (EUR)
DOS Domestic Regional Bureaus/Bureau of East Asia and Pacific Affairs (EAP)
DOS Domestic Regional Bureaus/Bureau of Near Eastern and South Asian Affairs (NEA)
DOS Domestic Regional Bureaus/Bureau of African Affairs (AF)

DOS Domestic ISO
DOS Domestic Consular Affairs
DOS Domestic Office of Comptroller (except M/COMP/FS)
DOS Domestic M/COMP/FS
DOS Domestic PM, INR, A/SY
DOS Domestic INM, OES, RP, IO
DOS Domestic OC
DOS Domestic OPR
DOS All Other Domestic Organizations
AID MACS Sites Overseas
AID Non-MACS Sites Overseas
AID Domestic
USIA Overseas
USIA Domestic

* Draft GCP presented with Offeror's proposal.

Figure CC-6-2

GROUP CONVERSION PLAN DEVELOPMENT REQUIREMENT

CC.6.2.2 Finalize the Conversion Approach Definitions and Guidelines

The Contractor shall describe the conversion approaches to be utilized. For example, these may include, but are not limited to:

- The use of conversion centers
- The use of 'roving' conversion teams
- The self conversion approach, where the conversion occurs on the Government site, typically being performed by the Government staff assigned to that site.

The description of the conversion approaches shall be in sufficient detail so as to enable the GCP developers (during Phase II) to intelligently select which conversion approach should be implemented through their GCP development process. (See Section J, Attachment XIV, Section 3.)

CC.6.2.3 Finalize the Quality Assurance Plan and Implementation Guidelines

The Contractor shall finalize the Quality Assurance (QA) plan and QA implementation guidelines. Included shall be QA responsibilities and procedures for the QA review and approval of:

a. Document Deliverables - plans and accompanying schedules (MCP, GCP, SCP, CTP, etc.), management procedures and guidelines, technical support procedures, conversion support procedures, etc.

b. Conversion Products - hardware and software inventories, application programs and data, test data and procedures, conversion tools/aids, application documentation (source code comments, users guides, system managers manuals, etc.), optimization reports, etc. This plan must specifically address the Contractor's approach for assuring that the performance of the converted software meets or exceeds the current levels of performance in the WANG environment.

CC.6.2.4 Finalize the User Training Plan and Implementation Guidelines

The Contractor shall finalize the User Training Plan and training implementation guidelines. The User Training Plan shall contain guidelines for implementing and coordinating the various training efforts and provide schedules for conducting user training courses for those applications, data files, glossaries, and WP documents which are converted during Phase III.

The User Training Plan shall contain the following for each course:

a. A course description, which shall provide:

   1) Course name/title.

   2) Goal and objectives.

   3) Description, including any special teaching techniques/aids employed.

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4) Course duration in class days or portion of class days where one class day is equal to six (6) hours of instruction.

5) Course materials (list) that shall identify the books, documents, handouts, etc. to be provided to the student. The materials that shall become the property of the student (student-kept materials) shall be clearly identified.

6) Student prerequisites (education and or prior experience requirements).

7) Student materials (list), which shall identify any special and/or unique materials, paraphernalia, etc., to be provided by the student.

b. A detailed course outline identifying each major and minor topic to be presented. Columns shall be provided to the right of the outline to indicate the duration in minutes of each topic, and references to course materials where applicable (e.g., a transparency/slide reference number, reference document name and page number, etc.). The course description (a. above) and this course outline shall, in all cases, be student-kept materials.

c. An Instructor Guide, which shall provide:

1) Instructor materials (list), which shall identify any special and or unique tools/aids/equipment, materials, paraphernalia, etc., to be used to present the course.

2) An instructor outline (formatted in the same manner as the course outline in b. above), which shall provide guidance to the instructor for the presentation of each topic contained in the course outline.

d. Student and Instructor Documentation which shall consist of one (1) copy of each documentation item identified by the course description and instructor guide (e.g., text books, reference manuals, copies of transparencies/slides, etc.).

CC.6.2.5 Finalize the Software Configuration Management Plan

The Contractor shall finalize the Software Configuration Management Plan (SCMP). The SCMP shall define the software configuration management procedures and tools to be used by the CSTG and the individual sites during the conversion process.

The SCMP must address the following cases:

a. Standard applications residing on standard development systems.

b. Standard applications residing on standard production systems.

c. Locally developed applications (regardless of system type).

Refer to Subsection CC.2 for definitions of application and system types.

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CC.6.2.6 Develop and Finalize the GCP Development Procedures

This shall include detailed guidance to both the Contractor and the Government on how each GCP is to be developed. The guidelines shall address:

a. Determination of conversion requirements.

b. Development of detailed implementation and conversion schedules.

c. Development of detailed conversion plans.

d. Contractor/Government Staffing Plan - the Contractor shall assume that one person from the Government shall be made available, one-half time, for the duration of each GCP development activity. Additional requirements for Government resources during these activities must be stated in the Contractor's proposal, for evaluation purposes.

CC.6.2.7 Prepare the Site Conversion Plan (SCP) Development Procedures

This activity shall provide detailed guidance to both the Government and the Contractor as to how the SCPs shall be developed. (This guidance shall be further refined in each GCP as is applicable to that GCP's special requirements.)

CC.6.2.8 Define the GCP Approval Process

This task shall define the schedule and milestones for the approval of each Group Conversion Plan (GCP). Each Group Conversion

Plan must be approved by the COTR prior to commencing any conversions not included in Subsection CC.6.4.

CC.6.2.9 Define the SCP Approval Process

This task shall define the guidelines for the approval process for each Site Conversion Plan. Each GCP shall refine and delineate the SCP approval process.

CC.6.2.10 Define the Contractor Management Process

This activity shall expand upon the Contractor's management approach (as initially presented in the Contractor's proposal) to set forth clearly the roles and responsibilities of each member type of the Contractor Team. Detailed organization charts and descriptions of the roles and responsibilities shall be included in the attachments to the MCP so that the Government (and Contractor) personnel who shall be participating in the conversion process will understand clearly the roles and responsibilities of Contractor personnel. These definitions must correlate to the Conversion Task Packages (CTP) defined in Paragraph CC.6.2.13.

CC.6.2.11 Define Government Participation

The Contractor shall develop a recommended Government staffing plan, including an estimate of the required person hours by each labor category.

CC.6.2.12 Define the GCP Review Process

A detailed procedure must be proposed that defines the process for review, approval and resource allocation (at the COTR level) which is required as a result of the resource requirements defined in each Group Conversion Plan. Specific areas of concern should include an assessment of whether the required resources can be made available when necessary, and what adjustments are necessary to support the collective requirements of the GCPs in support of the total conversion management process.

The adequacy of this process will have a major impact on the total conversion effort. The Offeror's proposal must address the procedure required for establishing and updating the Government and Contractor resource requirements, allocation, and status monitoring.

CC.6.2.13 Develop the Conversion Task Packages

A Conversion Task Package (CTP) shall be developed for each unique conversion approach that is proposed for a specific SCP. A CTP will consist of one (1) Conversion Task Description (CTD) for each unique site conversion task to be performed. Section J, Attachment XII defines the conversion tasks that are recognized by the Government. The Offeror may name and describe site conversion tasks in accordance with the Offeror's conversion methodology. However, the Offeror must provide, in the Offeror's proposal, a comprehensive description of the Offeror's conversion methodology (including detailed conversion task descriptions) and a matrix showing how each of the conversion tasks in Section J, Attachment XII are satisfied by the Offeror's conversion methodology.

A CTD shall provide the following:

a. A general description of the task including its relationship to other conversion tasks.

b. A detailed step-by-step description of task execution including required input(s), work steps, and output(s) of the task.

c. A matrix showing the distribution of labor between Contractor and Government staff for the execution of the individual work steps of the task, and the staff days required for both the Contractor and Government portions of the work to be performed.

It is required that the Contractor prepare, in accordance with the Offeror's proposed conversion approach(es), a detailed, generic conversion tasking description for each distinct conversion task to be performed. It is recognized that this may result in redundant tasking descriptions, but separate descriptions must be prepared for Government and Contractor-performed tasks. The descriptions must address the totality of tasks to be performed for any single site conversion. This task breakout must be at least to the level set forth by the Site Conversion Worksheet (Figure B-4-2) in Section B.

The purpose of the Conversion Task Packages is to provide for a virtual 'cookbook' approach to the development of the SCP. As a result, task definition, roles and responsibilities, and resource scheduling defined in the SCPs should be relatively easy to develop, approve and implement. As each GCP is developed and approved, the instructions for drafting Conversion Task Packages shall be further refined to support any special requirements of that GCP.

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CC.6.2.14 Finalize the Site Conversion Plan (SCP) Costing Guidelines

It shall be necessary for each site to develop or have developed both an SCP and an associated firm-fixed-price (FFP) quotation for conversion (see Sections B and L). This task shall implement the Contractor's proposed conversion pricing algorithm and provide to the GCP developers detailed, uniform guidance for the development and negotiation of the pricing of any site's conversion activity.

CC.6.2.15 Finalize the Reporting Requirements

Successful conversion management requires specific, periodic reporting. The Contractor shall recommend the content, format and frequency of all reports to be produced, who is responsible for their preparation, and the recommended distribution of these reports.

CC.6.3 Conduct Phase I Conversion Training

Three types of training shall be provided: conversion management, conversion methodology and conversion tools and techniques, as discussed in the following paragraphs. Each class shall be developed and geared to the capabilities of the attendees and shall provide any necessary handouts, worksheets, and required text books for each member of the training class, plus five additional sets of materials.

It is required that the Offeror's proposal contain a comprehensive draft of the Conversion Training Plan (excluding text books and manuals). The draft Conversion Training Plan will be completed during Phase I, and updated as required to provide additional conversion training courses during Phases II and III.

The organization and content requirements of the Conversion Training Plan shall be the same as specified for the User Training Plan in Subsection CC.6.2.4. As such, the Government shall provide to the Contractor, at contract award, a detailed set of comments and recommendations for inclusion in the Conversion Training Plan for the conversion training activities.

Two (2) weeks after contract award, the Contractor shall provide the final Conversion Training Plan. Acceptance of the Conversion Training Plan shall be in accordance with Paragraph EE.4.1.

The COTR shall review and approve the conversion training schedule prior to the commencement of training courses. Acceptance of the conversion training courses shall be in accordance with Paragraph EE.4.3.4.

CC.6.3.1 Conversion Management Training

This course shall be presented as an informal seminar and shall provide department/agency management and administrative staff with the following instructions:

a. An overview of the conversion process, as it shall be used to convert department/agency sites using the Contractor's conversion methodology, tools/aids, approach(es), etc.

b. A description of the conversion management organization, management processes, and systems that shall be used to manage the conversion effort. It will introduce and describe quality assurance procedures, technical support overview and procedures, coordination requirements and procedures, and conversion/user training overview and procedures.

This will be an open forum session where attendees may submit questions or elicit further explanation of the materials/concepts presented. The seminar must be presented in one-half day sessions. Offerors must propose, in their proposals, the recommended number of sessions that are required to satisfy the course objectives.

The Contractor shall present three of these courses for a maximum of twenty (20) attendees per course. The courses shall be conducted at the Department of State, Washington, D.C. The first session shall be scheduled no earlier than week two (2) after contract award, and all course presentations shall be completed before the end of week six (6). The Government may require additional conversion management training sessions.

CC.6.3.2 Conversion Methodology Training

This course shall be conducted for department/agency personnel assigned to participate in the development of the GCPs. This course shall be presented in a formal, live-lecture format and will provide instruction as necessary to:

a. Support conversion requirements analysis activities at the department/agency major organization level.

b. Support the development of management guidelines, procedures, and processes.

This course must be presented in one-half day sessions. Offerors must propose, in their proposals, the recommended number of sessions that are required to satisfy the course objectives.

The Contractor will develop and present three of these courses for approximately thirty (30) attendees per course. The courses shall be conducted at the Department of State, Washington, D.C. The first course presentation shall be scheduled no earlier than week two (2), and all courses shall be completed before the end of month three (3).

CC.6.3.3 Conversion Tools and Techniques Training

This course shall be developed for department/agency personnel assigned to provide conversion support (e.g., members of the CSTG). This course shall be presented in a formal, live-lecture format and shall provide instruction in the performance of technical conversion tasks (using the Contractor's methodology) and in the detailed use of Contractor-supplied conversion tools and aids.

The objective of the course shall be to enable the attendee to support the performance of, or successfully perform, the following technical tasks:

a. Application software conversion (e.g., the load, setup, and operation of language translators).

b. Data file and data base conversion (e.g., the load, setup, and operation of data translators).

c. Application testing and/or simulation (e.g., the load, setup and operation of test facilities and/or simulators). These are defined as facilities and/or simulators used for the purposes of generating test data, verifying the accuracy and performance of translation, or simulating application system, file or user interfaces.

This course must be presented in one-half day sessions. Offerors must propose in their proposals the recommended number of sessions that are required to satisfy the course objectives stated above. The Contractor shall present, at a minimum, two of these courses for a maximum of thirty (30) attendees per course presentation. The courses shall be conducted at the Department of State, Washington, D.C. The first course presentation shall be scheduled no earlier than the beginning of month three (3), and all sessions shall be completed before the end of month four (4).

CC.6.4 Prepare for and Perform Initial Conversions

This subsection addresses the conversion of standard applications and glossaries that are specifically identified and scheduled as shown in Figure CC-6-3. The requirements included in this subsection are for conversion and conversion support services, and are mandatory requirements. Offerors must provide firm-fixed prices for the conversion of these applications and glossaries in order to be considered responsive to this solicitation. The identifiers provided in Figure CC-6-3 must be used in accordance with Section B requirements. Firm-fixed prices must be used in the SCPs required for initial conversion and described in Paragraph CC.6.4.1.

General descriptions of these applications are provided by Section J, Attachment XVI. Detailed information for the applications and glossaries is provided in the Department of State Reading Room (refer to Section J, Attachment XVIII, for instructions) which Offerors must use to formulate and propose a conversion approach(es) and costs. A variety of documentation is provided in the Reading Room for these applications, including:

SITE	APPLICATION	IDENTIFIER	START DATE	END DATE
DOS A/ISO[1]				
	Personnel	PE	Month 2	Month 7
	Non-Expendable Property Application	PP	Month 2	Month 7
	Expendable Supplies	ES	Month 2	Month 7
	Residential Management	RM	Month 2	Month 7
	Invitation Contact	IA	Month 2	Month 7
	Controlled User Environment	YY	Month 2	Month 7
	Visitor's System	VI	Month 2	Month 7
	3270 Telecommunications	TC	Month 2	Month 7
	Hardware Log	HL	Month 2	Month 7
	Conctab/Flextab	XX	Month 2	Month 7
	Global Economic Data Exchange	GE	Month 6	Month 12
	Real Estate Management System	RE	Month 6	Month 12
	(TD4) Travel Form Glossary	01	Month 6	Month 12

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[1] This site is referenced in Section J, Attachment IX under site ID 209010. Its computer installation must have occurred by month 2.

Figure CC-6-3

INITIAL CONVERSION REQUIREMENT SCHEDULE

SITE	APPLICATION	IDENTIFIER	START DATE	END DATE
	SF-50, Notification of Personnel Action Glossary	02	Month 6	Month 12
	Form DS-1403, Financial Plan Glossary	03	Month 6	Month 12
	OCR-B Telegram Format Glossary	04	Month 6	Month 12
	Requisition Form Glossary	06	Month 6	Month 12
	DS-1042 Personnel Stop Increase Form	07	Month 6	Month 12
	Vehicle Sales Agreement Glossary	08	Month 6	Month 12
	Miscellaneous GL Entries	09	Month 6	Month 12
	DS-323 Airgram Glossary	10	Month 6	Month 12
	Form 129 Non-expendable Property Control Glossary	11	Month 6	Month 12
	Form 128 Non-expendable Property Glossary	12	Month 6	Month 12
	Non-expendable Property Control Form Glossary	13	Month 6	Month 12
	Property Disposal Transaction Glossary	14	Month 6	Month 12
	TERP Telegram Aid Glossary	15	Month 6	Month 12
	Exchange Rate Table Glossary	16	Month 6	Month 12

Figure CC-6-3 (Cont'd)

INITIAL CONVERSION REQUIREMENT SCHEDULE

SITE	APPLICATION	IDENTIFIER	START DATE	END DATE
	Miscellaneous Expenses by Residence Glossary	17	Month 6	Month 12
	Utilities by Residence Glossary	18	Month 6	Month 12
	Staggered Address Glossary	20	Month 6	Month 12
	General Travel Authorization Glossary	21	Month 6	Month 12
	T&A Checker/Producer Glossary - RAMC/M	22	Month 6	Month 12
	Telegraphic T&A Glossary - TERP Standard - RAMC/P	23	Month 6	Month 12
	Representational Funds Glossary	24	Month 6	Month 12
	Representational Summary Glossary	25	Month 6	Month 12
	Overseas Bid Format Glossary	26	Month 6	Month 12
	Label-List-Label Glossary	28	Month 6	Month 12
	Label-Merge-Label Glossary	29	Month 6	Month 12
	Marine Security Guard Travel Orders Glossary	30	Month 6	Month 12

Figure CC-6-3 (Cont'd)

INITIAL CONVERSION REQUIREMENT SCHEDULE

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SITE	APPLICATION	IDENTIFIER	START DATE	END DATE
	Purchase Order Preparer Glossary	31	Month 6	Month 12
	Purchase Order Voucher Preparer Glossary	32	Month 6	Month 12
	DS-1829 Foreign Service Officer Efficiency Report Glossary	33	Month 6	Month 12
	Work Requests Control Glossary	34	Month 6	Month 12
DOS CA[2]	Immigrant Visa Applicant Control System	IV	Month 4	Month 10
	Non-Immigrant Visa Processing System	CP	Month 4	Month 10
	Citizen Services System	CS	Month 4	Month 10
	Miscellaneous Consular Functions	CX	Month 6	Month 12
	Consular Workload Statistics System	CW	Month 4	Month 10
	Immigrant Visa Control and Report System	LI	Month 4	Month 10

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[2] This site is referenced in Section J, Attachment IX under site ID 280210. Its computer installation must have occurred by month 4.

Figure CC-6-3 (Cont'd)

INITIAL CONVERSION REQUIREMENT SCHEDULE

September 12, 1986

SITE	APPLICATION	IDENTIFIER	START DATE	END DATE
	Correspondence Record Management System	CM	Month 4	Month 10
DOS-M/COMP/FMS[3]				
	Financial Management System (FMS)	FS	Month 6	Month 18
AID-IRM[4]	Customized Cable Glossary Generator	51	Month 6	Month 12
	Column Insert Glossary	52	Month 6	Month 12
	Standard Training Form Completion Glossary	53	Month 6	Month 12
	Lower to Upper Case Glossary	54	Month 6	Month 12
	Appointment Book Glossary	55	Month 6	Month 12
	Congressional Presentation Glossary	56	Month 6	Month 12
	AID Correspondence Memorandum Glossary	57	Month 6	Month 12
	PRE Correspondence Tracking Glossary	58	Month 6	Month 12
	Column Master Glossary	59	Month 6	Month 12

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[3] This site is referenced in Section J, Attachment IX under side ID 085000. Its computer installation must have occurred by month 4.

[4] This site is referenced in Section J, Attachment IX under site ID CE1000. Its computer installation must have occurred by month 3.

Figure CC-6-3 (Cont'd)

INITIAL CONVERSION REQUIREMENT SCHEDULE

SITE	APPLICATION	IDENTIFIER	START DATE	END DATE
	Super Math Glossary	60	Month 6	Month 12
	Dot Leader Glossary	61	Month 6	Month 12
	S & T Travel Funds Tracking Glossary	62	Month 6	Month 12
	International Communications System	IC	Month 6	Month 12
	Automated Inventory Management System (AID/W Version)	AI	Month 6	Month 12
	Resource Utilization System	RS	Month 6	Month 12
AID-CR[5]	Mission Accounting and Control System	MX	Month 6	Month 12
	Automated Inventory Management System Overseas	AM	Month 6	Month 12
	PIO/P Glossary	63	Month 6	Month 12
	VISA Form (IAP66) Glossary	64	Month 6	Month 12

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[5] This site is referenced in Section J, Attachment IX under site ID D11201. Its computer installation must have occurred by month 6.

Figure CC-6-3 (Cont'd)

INITIAL CONVERSION REQUIREMENT SCHEDULE

SITE	APPLICATION	IDENTIFIER	START DATE	END DATE
	Non-Expandable Property System	NE	Month 6	Month 12
	Text File Utility Program Glossary	65	Month 6	Month 12
USIA[6]				
	Distribution and Record System	DR	Month 6	Month 12

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[6] This site is referenced in Section J, Attachment IX under site ID B10000. Its computer installation must have occurred by month 6.

Figure CC-6-3 (Cont'd)

INITIAL CONVERSION REQUIREMENT SCHEDULE

- o System/Subsystem Specifications Documents
- o Program Specification Documents
- o System Managers Manuals
- o User Manuals
- o Program and Procs Source Code

Six new systems are indicated as development systems in the Installation Schedule, Section J, Attachment IX and will be used for the conversion of the standard applications and glossaries identified in Figure CC-6-3. Parallel operation of the six new and existing development systems will continue for the contract life.

The following subparagraphs contain the detailed specifications for the performance of the initial conversions.

CC.6.4.1 Initial Development Site GCP and SCP's

Due to the rapid implementation requirements, and in order to permit the Government to evaluate vendor proposals, Offerors must prepare a Group Conversion Plan (GCP) and associated Site Conversion Plans (SCP) for the initial development sites listed in Figure CC-6-3. Associated with each SCP will be a firm-fixed-price proposal for the conversion of the software described in Figure CC-6-3. Firm-fixed prices must be submitted in accordance with Section B. After contract award, the Contractor shall validate and update the software inventories for each Initial Development Site. The Government anticipates no more than a five percent (5%) deviation from the lines of code made available in the Reading Room (Section J, Attachment XVIII). Any cost changes caused by a larger than 5% deviation must be fully documented and justified, and the change to the quoted fixed price will be executed by use of the Changes Clause at FAR 52.243-1.

The GCP and SCPs will address only the conversion of those applications and glossaries shown in Figure CC-6-3 to be converted from the current development systems profiled in Section J, Attachment XIII, Figure 1a through 1f, to six new development systems indicated in the Installation Schedule, Section J, Attachment IX. Parallel operation of the six new and existing development systems will continue until suspended by the Government. Note that other system conversion requirements occurring at the initial development sites will be addressed in Phase II and III of the conversion project under separate GCPs and SCPs.

The GCP and SCPs shall be comprehensive, addressing all of the requirements in the remainder of Subsection CC.6, such that the proposal evaluators shall have all necessary information to judge the proposed approach to the total initial conversion effort as well as the individual SCP components.

The preparation of the vendor proposal must clearly define the contractor-proposed requirements which exceed those defined below. For each development site the following facilities will be made available:

1. Computer access for co-located, Vendor-supplied terminals and peripherals to support up to 10 programmer/analyst terminals.

2. Office space amounting to about 75 sq. ft. per terminal.

3. Access to computer peripherals, including all devices except terminals, to be acquired with CS computer systems.

4. Access during normal/business working hours (8:00 a.m.- 5:00 p.m.), Monday to Friday, exclusive of Federal Holidays. All Contractor staff working on DOS premises must have SECRET security clearances.

5. Expendable supplies (tape, printer paper, disk packs, and other magnetic media) will be a cost borne by the Contractor.

For each development site, this access and conversion support facility will be made available during the start and end dates reflected in Figure CC-6-3. If Vendor-proposed methodologies do not require this level of support, credit for the non-use of these facilities will be made, or debit for the use of additional facilities, in accordance with the information in Section B.

Preparation of the GCP and SCPs for the initial conversions of software, which is to be made operational in accordance with Figure CC-6-3, shall conform to the requirements of Subsections CC.7.1 and CC.8.4 to the greatest practical extent. Specific additional requirements are listed in the following paragraph.

CC.6.4.2 Performance Requirements for Converted Software

All software to be converted in accordance with Subsection CC.6.4 must be converted in such a manner so as to not degrade the overall quality of the operating performance of said software in the current environment. Vendors must include in their proposals a methodology to provide assurance of such matters. The performance of converted software shall be addressed as a guarantee in the SCP for each software application to be converted. The Vendor-proposed Quality Control and Quality Assurance Plan must state how the performance of the software, now operating on the current Wang environment, will be assessed and how similar measurements will be taken to assure that the operational performance of the software on new Vendor equipment is not degraded or is improved. These measurements shall be incorporated into the acceptance testing procedures provided in each SCP.

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CC.6.4.3 Development Site Conversion Management

The Contractor shall be responsible for the management of Contractor resources and for ensuring that the Government is fully aware of the requirements necessary throughout the conduct of the conversions. The Contractor shall perform the following activities:

a. Manage and coordinate the performance of the site conversion tasks.

b. Implement and operate the software configuration management and work package tracking systems (SCMS and WPMTS). The COTR shall be immediately advised in writing of any special considerations regarding software configuration and work package tracking/monitoring (e.g., the need to freeze application development/maintenance, the need to continue software development/maintenance through the conversion process, lost or damaged work packages, etc.).

c. Report site conversion progress/status to the COTR, Government site management and the SCP coordinator. At the end of each week, the Contractor shall provide a Weekly Status Report starting at the end of week 1 of the site conversion schedule. Included in the Weekly Status Report will be copies of the minutes of any meetings between Government site personnel and the Contractor for the purpose of discussing the site's conversion effort.

d. The Contractor shall propose a Project Control and Management Plan that includes all necessary forms and procedures to support day-to-day activities, as well as any types of problems that might be expected. This would include, for instance, problem definition, variances in expected conversion work items, etc.

The Contractor shall provide Monthly Development Site Management Status reports to the COTR. Included in these status reports will be summaries of the Weekly Status Reports (described in c. above), a summary of any outstanding problems/issues and action items being taken to resolve the problems/issues, and any recommended changes to SCPs. Acceptance of these status reports shall be in accordance with Paragraph EE.4.5.1.

CC.6.4.4 Perform Development System Conversions for Approved SCPs

The Contractor shall prepare for and perform conversion of the development system defined for each SCP.

The Contractor shall provide all necessary test data associated with the standard applications listed in Figure CC-6-3.

The conversion of development systems in this phase shall be performed in accordance with Subsection CC.4.4: Site Conversion Execution.

CC.6.4.5 Begin Parallel Operation of Development Systems

At each development site parallel operations shall be conducted in accordance with the approved SCP after system testing has been completed and accepted. The Contractor shall provide on-site transition support as required to prepare systems for parallel operations. Parallel operations for development systems are expected to continue through Phase II and III and will be discontinued only at the request of the Government. Parallel operations on development systems will be maintained not only for the purpose of testing standard applications converted initially in Phase I, but also for performing post-conversion maintenance and enhancements of converted standard applications.

Parallel operations shall be performed in accordance with Paragraph CC.4.4.11.

CC.7 PHASE II (PREPARATION FOR FUTURE CONVERSIONS) REQUIREMENTS

The requirements in this subsection and Subsection CC.8 address the future conversion requirements (e.g., those ADP applications, data, word-processing documents and glossaries that are executed on computer systems and are, for evaluation purposes, tentatively scheduled for replacement by the Installation Schedule, Section J, Attachment IX). These are not to be confused with those standard applications, etc., previously identified in Subsection CC.6 as initial conversion requirements, that are to be converted in Phase I. The requirements in Phase II are mandatory requirements.

Phase II will consist of the concurrent preparation of GCPs for the groups of department/agency organizations identified in Figure CC-6-2, and the acquisition and preparation of resources and any necessary facilities to implement the approved conversion approach identified in each of the GCPs. The purpose of each GCP is to coordinate the conversion requirements for a number of sites that have been determined to be similar in nature, and which are expected to utilize various combinations of conversion approaches.

The Contractor shall propose to conduct the preparation of the GCPs in accordance with the schedule summarized in Figure CC-7-1. If requested, the Government shall make available one person per GCP, half-time for a period of 2 months commencing on the start of that GCP development, to aid the Contractor in the GCP development and approval process. This person shall be able to represent the sites under that GCP and shall be able to facilitate the gathering of information required to develop the Conversion Plan. The Contractor shall be responsible for the quality of the resulting GCPs.

GCP Group Name	Start Date	End Date
Initial Development Sites* (Figure CC-6-3)		
DOS Foreign Posts (1 GCP for each):		
Bureau of Inter-American Affairs (ARA)	Note 1	Note 1
Bureau of European Affairs (EUR)	Note 1	Note 1
Bureau of East Asia and Pacific Affairs (EAP)	Note 1	Note 1
Bureau of Near Eastern and South Asian Affairs (NEA)DOS	Note 1	Note 1
Bureau of African Affairs (AF)	Note 1	Note 1
Classified Information Handling Systems (CIHS)	Note 1	Note 1
DOS Domestic Regional Bureaus (1 GCP for each:		
Bureau of Inter-American Affairs (ARA)	Note 1	Note 1
Bureau of European Affairs (EUR)	Note 1	Note 1
Bureau of East Asia and Pacific Affairs (EAP)	Note 1	Note 1
Bureau of Near Eastern and South Asian Affairs (NEA)	Note 1	Note 1
Bureau of African Affairs (AF)	Note 1	Note 1
DOS Domestic ISO	Note 1	Note 1
DOS Domestic Consular Affairs	Note 1	Note 1
DOS Domestic Office of the Comptroller (except M/COMP/FS)	Note 1	Note 1
DOS Domestic M/COMP/FS	Note 2	Note 2
DOS Domestic PM, INR, A/SY	Note 1	Note 1
DOS Domestic INM, OES, RP, IO	Note 1	Note 1

*Presented with Offeror's proposal.

Note 1: For the purposes of evaluation, Offerors are to assume that all GCPs (except as indicated for Note 2) must be started on the first day of month two after date of award and completed on the last day of month 5 after date of award.

Note 2: This GCP development will commence on the first day of month four after date of award and completed on the last day of month 8.

Figure CC-7-1

SCHEDULE OF DEVELOPMENT OF GROUP CONVERSION PLAN

September 12, 1986

GCP Group Name	Start Date	End Date
DOS Domestic OC	Note 1	Note 1
DOS Domestic OPR	Note 1	Note 1
DOS All Other Domestic Organizations	Note 1	Note 1
AID MACS Sites Overseas	Note 1	Note 1
AID Non-MACS Sites Overseas	Note 1	Note 1
AID Domestic	Note 1	Note 1
USIA Overseas	Note 1	Note 1
USIA Domestic	Note 1	Note 1

Figure CC-7-1 (Cont'd)

SCHEDULE OF DEVELOPMENT OF GROUP CONVERSION PLAN

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CC.7.1 Develop Group Conversion Plans

The Contractor shall conduct the following tasks, at a minimum, in order to prepare each Group Conversion Plan, which shall be prepared in accordance with the guidelines and procedures specified in the approved Master Conversion Plan prepared under Phase I:

a. Schedule and conduct GCP development kickoff meeting.

b. Finalize schedule of sites to be converted.

c. Revalidate current processor and peripheral inventory for each site to be converted.

d. Identify conversion approach(es) to be taken.

e. Estimate overall staffing needs for that approach, for each site to be converted.

f. Estimate Contractor and Government staffing requirements.

g. Refine cost estimates to include Contractor and Government estimates per site.

h. Refine the required Conversion Task Packages (CTPs) and Conversion Task Descriptions (CTDs) to support the selected conversion approach(es).

i. Finalize the SCP development procedures.

j. Obtain required internal approvals (budget, schedule, resources) prior to submitting GCP for COTR approval.

k. Prepare the Group Conversion Plan for submission to the MCP review process.

Figure CC-7-2 presents an outline for the table of contents and attachments for the Group Conversion Plan. The Vendor must address and include the contents of each section in the actual deliverable. Other sections should be included as necessary.

CC.7.2 Coordinate Group Conversion Plans Through the Master Conversion Plan

The Contractor shall have specific roles in the coordination of the GCP through the MCP review process. These shall include both the presentation of the GCP to the MCP review process and the review/coordination role as the MCP/CMB review team member. It is the intention of the Government to require that the Contractor be responsible both for the management of Contractor resources and for ensuring that the Government is fully aware of the required resource requirements necessary to complete the SCP development and execution tasks.

The roles and responsibilities of the Contractor, both in the presentation of the GCP to the MCP/CMB and in the MCP review process, shall be clearly defined in the Offeror's proposal. This information shall be included in the Contractor's draft MCP (submitted as a part of the Offeror's proposal).

CC.7.3 Revise and Finalize GCPs

Based on the results of the MCP review process, it shall be the responsibility of the Contractor to implement the required changes and to coordinate the GCP through the internal review process. Acceptance of the GCPs shall be in accordance with Paragraph EE.4.1.

SECTION

1. PURPOSE AND SCOPE
2. SITES TO BE SUPPORTED
3. CONVERSION APPROACHES TO BE UTILIZED
4. CONVERSION SCHEDULE (SITE BY SITE)
5. GOVERNMENT RESOURCES ESTIMATE (SITE BY SITE)
6. CONTRACTOR RESOURCES ESTIMATE (SITE BY SITE)
7. COST ANALYSIS (SITE BY SITE)
8. SCP DEVELOPMENT GUIDELINES
9. CONVERSION TASK PACKAGE (CTP) FINALIZATION
10. SCP APPROVAL PROCESS
11. MCP REVIEW AND REQUIRED CHANGES

ATTACHMENTS

A. Site Implementation Schedule
B. Site Resource Requirements
C. SCP Development Guidelines
D. SCP Pricing Guidelines
E. Refined CTP Standard Definitions
F. GCP User Training Plan
G. GCP Quality Assurance Plan
H. GCP Management Plan
I. GCP Roles and Responsibilities
J. SCP Roles and Responsibilities
K. The Sample SCP (Draft)
L. The Sample SCP Cost Analysis and Contractor FFP Quotation

Note: The attachments listed above are referenced throughout this section of the RFP. They should not be confused with attachments in Section J.

Figure CC-7-2

GROUP CONVERSION PLAN DRAFT OUTLINE

CC.7.4 Perform Required Pre-Conversion Activities

The Contractor shall define and propose any other required Phase II activities. These could include, but are not limited to:

a. Establishment of conversion center(s).

b. Preparation of training teams and materials for Phase III user training.

c. Conversion/implementation of standard functions such as glossary implementation, conversion tool optimization, etc.

These activities shall be defined as "Contractor specified deliverables." The Offeror must include any such Contractor specified deliverables and a schedule for the development of these deliverables in the Offeror's proposal to this RFP.

The negotiated final contract will include any such Contractor specified deliverables and will finalize the required acceptance criteria.

CC.8 PHASE III (FUTURE CONVERSIONS) REQUIREMENTS

This subsection addresses the tasks and activities required to develop and execute SCPs. With the exception of the implementation of standard applications and the conversion of the related data files on overseas standard production systems which is mandatory, the requirements included in this subsection are mandatory optional requirements. The Government may, at its option, execute all, any portion of, or none of the tasks and activities that are specified in this subsection.

This phase consists of the concurrent conversion of multiple sites using the conversion approaches provided by the approved GCPs. The following tasks are to performed during this phase:

- Master Conversion Plan Management
- Group Conversion Plan Management
- Site Conversion Management
- Preparation of the Site Conversion Plans (SCP)
- Perform Site Conversions for Approved SCPs
- Implement standard applications overseas

The first three tasks involve the overall management of the MCP, GCPs and SCPs. The remaining tasks involve the conversion and implementation tasks for each SCP. For the conversion and implementation of each site, an SCP shall be developed to schedule these tasks and define the Contractor and Government responsibilities for conversion task execution.

The total conversion requirement of the Department of State and associated agencies is provided by Section J, Attachment IX, "Installation Schedule." For each department/agency organization, the schedule identifies the current environment system (if any) and the expected target environment system for each contract year. The schedule specifies, per year, the expected quantity of hardware to be acquired and, where current environment systems exist, the expected number of conversions per current equipment type. Note that provisions are made in the schedule to accommodate the replacement of several current environment systems with one target environment system. Note also that current environment systems may be converted and merged into the target system following the installation of the target environment system as well as in conjunction with the installation of the target environment system.

To substantiate the pricing methodology for the firm-fixed price (FFP) required by the SCP during contract performance, Offerors must submit worksheets with their proposal, in accordance with Section B. One worksheet is required of each unique permutation of system configurations being converted. These worksheets will present firm-fixed prices utilizing the firm-fixed-pricing methodology proposed by the Offeror. The worksheets will be used for evaluation purposes. During Phase III, the Government will use the proposal conversion worksheets provided by the successful Offeror in accordance with Section B to validate the SCP FFP submitted during the conversion project life. Any variance between the proposal worksheets and the contractual SCP FFP must be in accordance with the FFP methodology. Instructions for FFP Methodology are provided in Section L.

Representative samples of program listings for each of the three representative system types to be converted in Phase III, are available for review in the Department of State Reading Room (see Attachment XVIII for instructions on use of the Reading Room). Profiles of the computer systems, designated by system type, are provided in Section J, Attachment XIII.

As previously stated, all standard software code and associated OCL is to be converted during Phase I, utilizing six newly acquired development systems. Therefore, future conversions will require implementation of the previously converted standard software code if applicable, plus conversion of files, glossaries, WP documents, and locally developed code.

The Offeror should consult the Installation Schedule in Section J, Attachment IX, the profiles in Section J, Attachment XIII, and the assumptions applicable to system types presented in Section B and Subsection CC.4.5, to determine the scope of equipment replacement and the associated conversion effort for each unique, evaluated permutation of system configurations.

CC.8.1 Master Conversion Plan Management

The Contractor and the Government shall have specific roles in the ongoing coordination of the GCP to the MCP. The MCP is a final deliverable that may be subject to occasional amendments. After completion of the SCPs subordinate to the GCP, the Contractor shall then be responsible for providing any recommended MCP amendments that may result from this coordination effort. The Contractor shall provide recommended MCP amendments in writing to the COTR for COTR/CMB review and approval.

The Contractor shall provide monthly MCP Coordination Status Reports to the COTR. Included in the status reports will be summaries of any recommended MCP amendments. Acceptance of these status reports shall be in accordance with Paragraph EE.4.5.1.

The Contractor requirements for high-level involvement in the MCP conversion process will be a vital role for which responsibilities of the Contractor shall be described in the Offeror's proposal. Levels of effort and associated costs should be identified for this management responsibility in the Offeror's proposal.

CC.8.2 Group Conversion Plan Coordination

The Contractor shall be responsible both for the management of Contractor resources and for ensuring that the Government is fully aware of the requirements necessary to complete the SCPs subordinate

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to the GCPs. The Contractor shall be responsible for coordinating the review/coordination process of the SCPs through the GCP as a GCP review team member.

The Contractor shall provide monthly GCP Coordination Status Reports to the COTR. Included in these status reports will be summaries of SCP reviews, advisements of any changes in planned resource requirements, and any change recommendations for GCPs. Acceptance of these status reports shall be in accordance with Paragraph EE.4.5.1.

The Contractor requirements for high-level involvement in the GCP process will be a vital role for which responsibilities of the Contractor shall be described in the Offeror's proposal. Level of efforts and costs should be identified for this responsibility in the Offeror's proposal.

CC.8.3 Site Conversion Management

The Contractor (or the Government, as specified in the GCP) shall be responsible for the management of conversion resources throughout the entire site conversion process and for ensuring that the COTR, GCP management and the Site Conversion Coordinator are fully aware of the requirements necessary to complete each SCP. The Contractor shall perform the following activities:

a. Manage and coordinate the performance of the site conversion tasks, including the implementation of standard application software on target systems upgraded to include standard development applications.

b. Implement and operate the software configuration management and work package monitoring tracking systems (SCMS and WPMTS). The COTR shall be immediately advised in writing of any special considerations regarding software configuration and work package tracking/monitoring (e.g., the need to freeze application development/maintenance, the need to continue software development/maintenance through the conversion process, lost or damaged work packages, etc.).

c. Report site conversion progress/status to the Government GCP management and the SCP coordinator. At the end of each week, the Contractor shall provide a Weekly Status Report starting at the end of week 1 of the site conversion schedule. Included in the Weekly Status Report will be copies of the minutes of any meetings between Government site personnel and the Contractor for the purpose of discussing the site's conversion effort.

d. The Contractor shall propose a site-level Project Control and Management Plan integral to the MCP/GCP/SCP that includes all necessary forms and procedures to support day-to-day activities, as well as any types of problems that might be expected. This would include, for instance, problem definition, variances in expected conversion work items, etc.

The Contractor shall provide monthly Site Conversion Management Status Reports to the COTR. Included in these status reports will be summaries of the weekly status reports (described in c. above), a summary of any outstanding problems/issues and action items being taken to resolve the problems/issues, and any recommended changes to SCPs. Acceptance of these status reports (if required to be prepared by the Contractor) shall be in accordance with Paragraph EE.4.5.1.

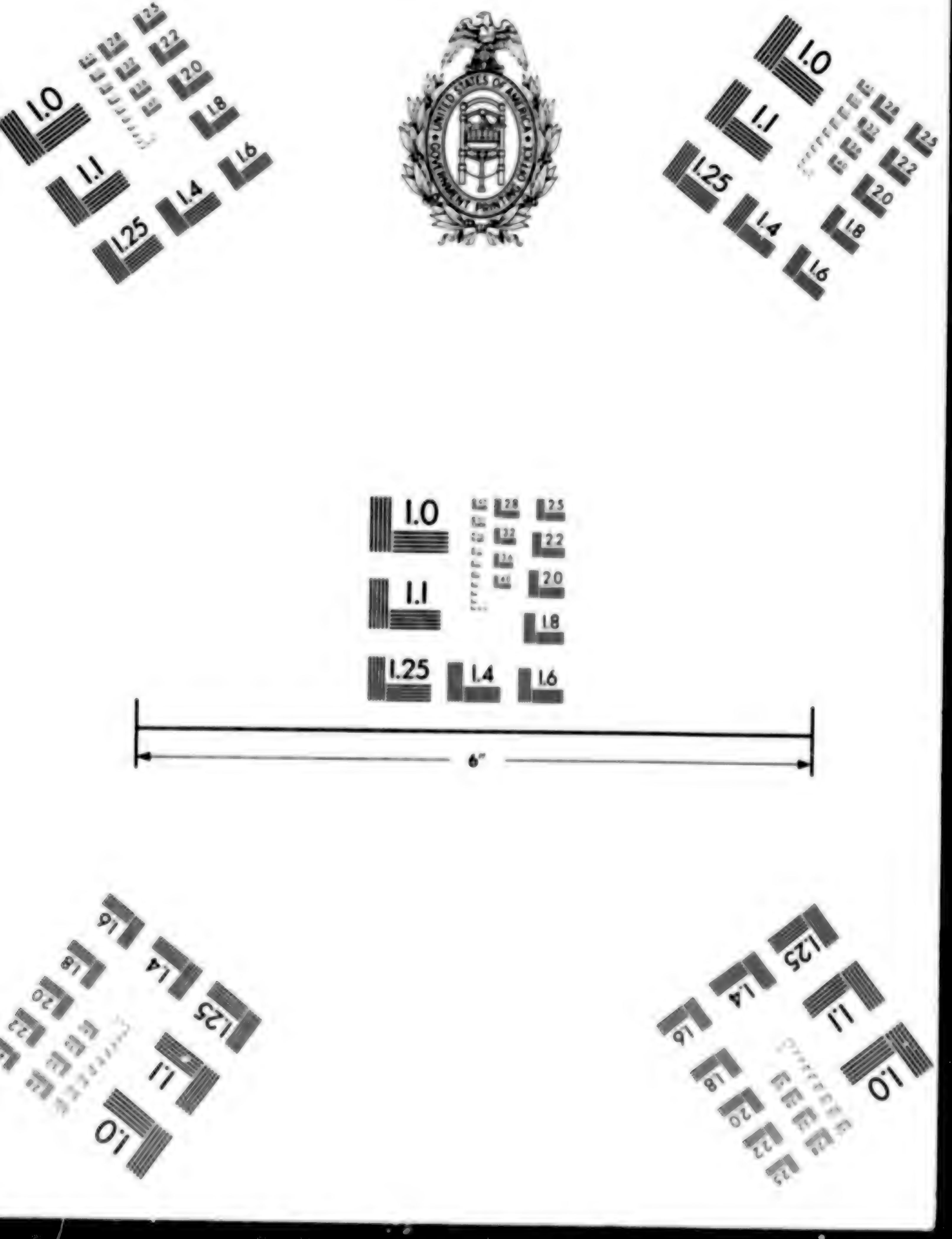
CC.8.4 Preparation of the Site Conversion Plan (SCP)

After Government approval of the GCP, the Contractor (or the Government, as specified in the GCP) shall produce a Site Conversion Plan (SCP) for each of the sites listed in the appropriate GCP. Figure CC-8-1 provides a draft outline of the SCP. The SCPs must be developed in accordance with the specifications contained in the GCP. The following activities shall be accomplished in order to complete each SCP:

a. Each SCP shall be developed to include a Firm-Fixed-Price quotation in accordance with the guidelines in the MCP and GCP and the Contract. The SCP must fully define the roles and responsibilities of the Contractor and Government in accordance with the applicable GCP.

b. As part of each SCP, a Conversion Task Package (CTP) as defined in the GCP must be completed for each site. The CTP shall define the complete schedule and total resources required to complete each task. The resources required to complete each task shall be clearly defined and identified as a Contractor or Government supplied resource.

c. The Contractor shall conduct a complete application software inventory in accordance with the SCP Development Guidelines provided by the GCP. The results of the inventory (e.g., Software Inventory Report) shall include programs, utilities, data files and data bases, operation control language (OCL), test data and procedures, and documentation for each application. The inventory also shall include word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SECTION

1. PURPOSE AND SCOPE
2. CURRENT ENVIRONMENT
3. TARGET ENVIRONMENT
4. CONVERSION APPROACH(ES)
5. CONVERSION SCHEDULE
6. CONTRACTOR ROLES AND RESPONSIBILITIES
7. GOVERNMENT ROLES AND RESPONSIBILITIES
8. FIRM FIXED PRICE COST FROM CONTRACTOR
9. RISK ASSESSMENT

ATTACHMENTS

A. Software Inventory - Current
B. Site Inventory - Target
C. Documentation Assessment
D. Software and Testing Evaluation Plan
E. Quality Assurance Plan and Contractor Warrantee
F. Site Conversion and Implementation Schedule
G. Site User Training Plan
H. Conversion Task Package (CTP) (one for each conversion approach)
I. Site Cost Summary
J. Contractor FFP Quotation

Figure CC-8-1

SITE CONVERSION PLAN DRAFT OUTLINE

processing documents and glossaries. The preparation of the inventory shall constitute a separate deliverable. Acceptance of the inventory shall be in accordance with Paragraph EE.4.2.4. After acceptance, the inventory shall be incorporated into the SCP as Attachment A.

The Government will use the software inventory to determine the disposition and conversion priority of the various inventory items (e.g., application software, word processing glossaries, and word processing documents). The Government will identify the inventory items to be converted by the Contractor. For those inventory items to be converted by the Contractor, the Contractor shall:

d. Evaluate and appraise the quality of the application's documentation (functional descriptions, program specifications, systems manager manual, operators guide, etc.).

e. The Contractor shall identify the system software features present in the current environment that are not directly supported by the target environment. The Contractor shall immediately advise the COTR and PCO in writing of the impact to the applications, the impacts to the conversion schedule and conversion cost estimate, and provide recommended solutions (e.g., rewrite, redesign, re-implementation, etc.) to address the problems.

f. Evaluate and appraise the quality of the applications test data and procedures.

g. Prepare a Test Plan and Converted Software Quality Assurance Plan which evaluates and includes an Acceptance Test Plan to ensure that the converted code will perform as well as, if not better than, the original software in terms of key performance parameters (such as response times for interactive and batch jobs). This performance guarantee will be incorporated into the Government's Inspection and Acceptance procedures for all products produced under the approved SCP.

These evaluations shall be performed in accordance with the approved GCP's SCP development and pricing guidelines.

The Contractor shall include these evaluations (including their impacts on conversion costs) as an attachment to the draft SCP. The Government shall independently appraise the documentation and test data/procedures as necessary to confirm and validate the Contractor's evaluations.

The COTR will evaluate the Contractor's findings and recommendations, and shall provide any guidance required to complete the SCP. The Contractor will then prepare a final SCP which incorporates the Government's comments and is complete in all respects as a result of this activity. The Contractor shall not perform the remaining conversion tasks without COTR approval of the SCP. Acceptance of the SCP shall be in accordance with Paragraph EE.4.2.5.

CC.8.4.1 Performance Requirements for Converted Software

All software to be converted in accordance with Section CC.8 must be converted in such a manner so as to not degrade the overall quality of the operating performance of said software in the current environment. Vendors must include in their proposals a methodology to provide assurance of such matters. The performance of converted software shall be addressed as a guarantee in the SCP for each software application to be converted. The Vendor-proposed Quality Control and Quality Assurance Plan must state how the performance of the software in the current Wang environment will be assessed and state how similar measurements will be taken to assure that operational performance of the software on new Vendor equipment is not degraded or is improved. These measurements shall be incorporated into the acceptance testing procedures provided in each SCP.

CC.8.5 Perform System Conversions for Approved SCP's

The Contractor shall prepare for and perform conversion of the systems defined by the appropriate approved SCP. The approved SCP will indicate which activities of each site's conversion tasks are performed by Contractor or Government staff and the schedule for their execution.

The conversion of future sites shall be performed in accordance with Subsection CC.4.4: Site Conversion Execution.

CC.8.6 Perform Phase III Parallel Operations

At each future conversion site, parallel operations shall be conducted in accordance with the approved SCP after system testing has been completed and accepted. The Contractor shall provide on-site transition support as required to prepare systems for parallel operations, and perform post-conversion maintenance of converted applications until the parallel operations are completed.

Parallel operations at future conversion sites shall be performed in accordance with Paragraph CC.4.4.11.

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SECTION D

PACKAGING AND MARKING

D.1 PACKING AND UNPACKING

The Government shall furnish such labor as may be necessary for packing, unpacking and placement of equipment when in the possession of the Government. Supervision of packing, unpacking and placement of equipment shall be furnished by the Contractor without charge to the Government.

D.2 PACKING FOR SHIPMENT

D.2.1 Domestic Shipments

All equipment, parts and supplies shipped to a destination within the continental United States shall be packaged for domestic shipment and delivered to the address shown in the Delivery Order.

D.2.2 Foreign TEMPEST Shipment

All TEMPEST equipment, parts and supplies ordered for overseas delivery shall be packaged for domestic shipment and delivered to the address shown in Subsection C.12.2.

D.2.3 Foreign Non-TEMPEST Shipment

All non-TEMPEST equipment, parts and supplies shipped to a destination outside continental United States shall be export packed for air shipment and delivered to the address shown in the Delivery Order.

D.3 PACKING LIST

Each package of equipment, parts and supplies shall contain a detailed packing list clearly listing all equipment, parts, supplies, materials and documentation included in the package.

D.4 MARKING REQUIREMENTS

Each component will be packaged in a container with the following information on the outside of the container: DATE SHIPPED, DELIVERY ORDER NUMBER, UNIT DESCRIPTION, SERIAL NUMBER, LINE VOLTAGE AND FREQUENCY.

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INSPECTION AND ACCEPTANCE

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SECTION E

INSPECTION AND ACCEPTANCE

E.1 STANDARD OF PERFORMANCE AND ACCEPTANCE OF EQUIPMENT

E.1.1 General

This provision establishes a standard of performance which must be met before any equipment listed in the Hardware Unit Price Schedule (Table B-1 in Volume III, Section 1 of the Contract) is accepted by the Government. This provision also includes replacement, substitute equipment, and machines which are added or field-modified (modification of a machine from one model to another) after a successful performance period.

E.1.2 Performance Period

The performance period shall begin on the installation date of the equipment at each location (unless delayed in accordance with E.1.17) and shall end when the equipment has met the standard of performance for a period of thirty (30) consecutive calendar days by operating in conformance with the Contractor's technical specifications and functional descriptions, or as quoted in the Contractor's proposal, which must satisfy the requirements of Section C, at an effectiveness level (see paragraph E.1.5) of 95% or more.

E.1.3 Continuance of Performance Period

If the equipment does not meet the standard of performance during the initial 30 consecutive calendar days, the performance period shall continue on a day-by-day basis until the standard of performance is met for a total of 30 consecutive calendar days.

E.1.4 Failure to Meet Standard of Performance

If the equipment fails to meet the standard of performance after 90 calendar days from the installation date or start of the performance period, whichever is later, the Government may at its option request a replacement or seek remedies in accordance with the Default Clause (refer to Subsection I.22) and request the immediate removal of the equipment at the Contractor's expense.

E.1.5 Effectiveness Level Computations

The effectiveness level for a system is computed by dividing the operational use time by the sum of the operational use time plus system failure downtime.

E.1.6 Changes in Equipment

The effectiveness level for machines added, field-modified, or substituted, or for a replacement machine is a percentage figure determined by dividing the operational use time of the machine by the sum of that time plus downtime resulting from equipment failure of the machine being tested.

E.1.7 Operational Use Time for System

Operational use time for performance testing for a system is the accumulated time during which the Central Processing Unit is in actual operation, including any intervals of time between the start and stop of the processing of the programs.

E.1.8 Operational Use Time for Equipment

Operational use time for performance testing for a machine added, field-modified, or substituted, or for a replacement machine, is defined as the accumulated time during which the machine is in actual use.

E.1.9 System Failure Downtime

System failure downtime is that period of time during which the scheduled productive workload, or simulated workload being used for acceptance testing, cannot be continued on the system due to machine(s) failure. If simulated workload is being used for acceptance testing, it must be consistent with the functional requirements set forth in Section C of this RFP.

E.1.10 Start of Downtime

Downtime for each incident shall start from the time the Government contacts the Contractor's designated representative at the prearranged contact point until the system(s) or machine(s) is returned to the Government in proper operating condition. However, at the request of the Contractor, the Government shall make available not only the failed equipment, but also those machines which the Contractor must use to accomplish such repairs. The Contractor shall provide an answering service or other continuous telephone coverage to permit the Government to make such contact.

E.1.11 Equipment Use During System Downtime

During a period of system failure downtime, the Government may use operable equipment when such action does not interfere with maintenance of the inoperable equipment. The entire system will be considered down during such periods of use. Whenever the operable equipment is not released to the Contractor upon request, all such usage periods shall be considered system operational use time in computing the effectiveness level.

E.1.12 Machine Failure Downtime

Machine failure downtime for a machine added, field-modified, or substituted, or for a replacement machine after the system has completed a successful performance period is that period of time when such machine is inoperable due to its failure.

E.1.13 Minimum of Use Time

During the performance period for a system/machine, a minimum of 100 hours of operational use time with scheduled productive or simulated work will be required as a basis for computing the effectiveness level. However, in computing the effectiveness level, the actual number of operational use hours shall be used when that number exceeds the minimum of 100 hours. Added machines, field-modified machines, and substitute machines are subject to the 100 hours minimum use time requirement. However, the Government shall accept such machine(s) without the addition of simulated work solely to achieve the minimum of 100 hours use time, provided the average effectiveness for the 30-day acceptance period is equal to or better than the level specified in Paragraph E.1.2.

E.1.14 Date of Acceptance

The Date of Acceptance shall be the first day of the successful performance period. The Government shall not accept equipment and shall not pay any charges until the standard of performance is met. All applicable charges shall accrue beginning on the Date of Acceptance.

E.1.15 Daily Records

The Government shall maintain appropriate daily records to satisfy the requirements of Subsection E.1 and shall notify the Contractor in writing of the date of the first day of the successful performance period.

E.1.16 Measure of Operational Use Time

Operational use time and downtime shall be measured in hours and whole minutes.

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E.1.17 Delay of Start of Performance Period

If necessary, the Government may delay the start of the performance period, but such a delay shall not exceed 30 consecutive calendar days; therefore, the performance period must start not later than the 31st calendar day after the installation date. Should the Government delay the start of the performance period, rental charges shall accrue for that period of time between the installation date and the start of the performance period and shall be paid only upon completion of the successful performance period.

E.1.18 Remote Devices

For remote devices the standard of performance shall be determined in accordance with Paragraph E.1.13. A remote device is defined as any Contractor-supplied device which is connected to the Central Processing Unit by way of data transmission lines rather than Contractor-supplied direct cable connection. The effectiveness level for equipment supplied by the Contractor shall be computed in accordance with Paragraph E.1.6 and shall exclude downtime attributable to related equipment, cables, transmission lines, wires, etc., not supplied by the Contractor.

E.1.19 TEMPEST Certification

The Government cannot install TEMPEST equipment or fiber optic system that has not been certified in accordance with the requirements of Paragraph C.3.11. If the TEMPEST equipment and fiber optic system have not been certified as required by Paragraph C.3.11, the Government may, at its option, require the Contractor to pay liquidated damages, or seek remedies in accordance with the Default Clause (refer to Subsection I.22).

E.2 GUARANTEED RERUN OF THE BENCHMARK TEST

E.2.1 Agreement

If requested by the Government, the Contractor agrees to rerun the benchmark test set forth in the Contract on the initial proposed ADP system and any proposed augmentations installed. This rerun shall be completed prior to the start of the acceptance test period at the installation site.

E.2.2 Required Performance

If the initial installation includes all of the hardware and software used by the Contractor to perform the preaward benchmark test, the time to perform the benchmark rerun(s) shall not exceed the maximum benchmark time(s) specified for the preaward benchmark test for that configuration. If the initial hardware/software configuration installed at the Government's site must be augmented under the terms of the contract, the benchmark rerun(s) shall not exceed the maximum benchmark time(s) specified for the preaward benchmark test for the specific augmented configuration involved.

E.2.3 Files, Data, and Procedures

The benchmark program files, input data, and processing procedures must be the same as those used in the original Live Test Demonstration. The Contractor agrees to retain all necessary files, programs, and information used in the original benchmark test for the guaranteed rerun benchmark test.

E.2.4 Additional Hardware and Software

If the required performance is not attained on rerun of the benchmark tests, through no fault of the Government, the Contractor shall provide whatever additional or substitute hardware and/or software is necessary to meet the specified benchmark test time(s) at no cost to the Government for the duration of the system life specified in the Contract.

E.3 FAR 52.252-2 CONTRACT CLAUSES INCORPORATED BY REFERENCE (APR 1984)

This document incorporates the following contract clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available.

I. Federal Acquisition Regulation (48 CFR Chapter 1) Contract Clauses

52.246-2 Inspection of Supplies--Fixed Price (JULY 1985)

52.246-4 Inspection of Services--Fixed Price (APR 1984)

52.246-16 Responsibilities for Supplies (APR 1984)

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SECTION EE

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SECTION EE

CONVERSION DELIVERABLES INSPECTION AND ACCEPTANCE

EE.1 GENERAL

This Provision establishes a standard of performance which must be met before each deliverable product is accepted by the Government. Each deliverable must be completed in accordance with specifications, schedules, test plans and acceptance criteria stated in the Contractor's proposal and Section CC. A list of all deliverables is presented in Section FF of this document.

EE.2 CONVERSION REQUIREMENTS

This Section deals with the services required in support of the delivery to a Government site of computer systems or equipment sufficiently different from that which they replace as to require training or retraining of Government personnel and/or conversion of programs, data files, data bases and other software. As provided in Section CC, when the Contractor is responsible for the site conversion, individual site conversions must be preceded by specific written plans, accepted by the Government, to perform all of the tasks required before the replacement computer systems and equipment can be utilized effectively and the replaced equipment released. These include, but are not limited to the Master Conversion Plan, Group Conversion Plan, conversion of key development sites, conversion of standard applications programs, preparation of conversion tools and preparation and acceptance of a specific Site Conversion Plan, when the Contractor is responsible for the site conversion, to convert the site at which the new computer system or equipment is to be installed. A Site Conversion Plan must be delivered to and accepted by the Government prior to the scheduled delivery date of the new computer system or equipment.

EE.3 COMMUNICATION OF ACCEPTANCE/REJECTION OF DELIVERABLES

Acceptance or rejection of a submitted deliverable will be formally communicated via written notice from the Contracting Officer, or his duly authorized representative, to the Contractor. For those deliverables returned to the Contractor as not acceptable, the Contractor shall make the necessary corrections. The Contractor shall make corrections, retest, as required, and re-submit the deliverable to the Government for inspection and acceptance.

EE.4 DELIVERABLES

The deliverables are organized into the following categories and acceptance/rejection criteria are applied to each category:

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- Plans - Master Conversion Plan (MCP) (including component plans such as the User Training Plan, Software Configuration Plan, etc.), Group Conversion Plans (GCPs) (regardless of type) ; Site Conversion Plans (SCPs) (regardless of type), and the Conversion Training Plan.
- Conversion Tasks - Includes the required conversion tasks identified by Attachment XII, and the required management functions for the MCP, GCPs and SCPs (CC.8.1, CC.8.2, and CC.8.3).
- Conversion Tools - Includes the conversion tools, test and optimization reports required in Subsection CC.5.1, and the conversion training courses required in Subsection CC.6.3.
- Systems - Includes the Software Configuration Management System and the Work Package Monitoring and Tracking system required in Subsections CC.5.2 and CC.5.3.
- Status Reports - Includes the MCP, GCP and SCP status reports required in Subsections CC.8.1, CC.8.2 and CC.8.3.

EE.4.1 Plans

EE.4.1.1 Inspection of Plans

The Government will review and verify that the plan is complete, accurate and satisfies the requirements stated in Section CC for the plan and in conformance with the Contractor's proposal. The Government will provide written comments on the plan, including any necessary corrections within 30 calendar days from receipt of the plan. If the Government's comments are extensive, the Government may request that a second plan be submitted.

EE.4.1.2 Response to COTR Comments

Upon receipt of the Government comments, the Contractor shall have 15 calendar days to make corrections, incorporate comments, if required, and deliver the final plan, or, if requested in the Government comments, deliver a second draft of the plan. In the event a second draft of the plan is required, the Contractor shall have 10 calendar days to re-submit the draft of the plan.

EE.4.1.3 Inspection and Acceptance of Final Plans

The Government will review and verify that all corrections have been made and comments, if any, are incorporated into the final plan. If acceptable, the Government will provide the Contractor written notice of acceptance within 10 calendar days after receipt of the final plan.

EE.4.2 Conversion Tasks

The requirements in the following paragraphs apply to site conversions regardless of classification (i.e., initial or future).

EE.4.2.1 Master Conversion Plan Management

The Government will verify that the Contractor has provided the necessary coordination of the GCP to the MCP. The Government will then monitor the coordination process to ensure that the Contractor has incorporated any amendments to the MCP which may be required. The Contractor's roles and responsibilities in MCP management must be in accordance with roles and responsibilities specified in Section CC, Paragraph CC.8.1.

EE.4.2.2 Group Conversion Plan Management

The Government will monitor the Contractor's management of Contractor resources and require the Contractor to keep the Government fully aware of the requirements necessary to complete the SCPs subordinate to the GCPs. The Government will verify that the Contractor has provided the necessary coordination of the SCPs to the GCP. The Government will then monitor the coordination process to ensure that the Contractor has incorporated any amendments to the GCP which may be required. The Contractor's roles and responsibilities in GCP management must be in accordance with Section CC, Paragraph CC.8.2.

EE.4.2.3 Site Conversion Management

The Government will monitor the Contractor's management of Contractor resources throughout the entire conversion process. The Contractor's roles and responsibilities in SCP management must be in accordance with Section CC, Paragraphs CC.6.4.3 and CC.8.3.

EE.4.2.4 Software Inventory

EE.4.2.4.1 Inspection of Software Inventory

The Government will review the Contractor's software inventory report (to be provided in the draft SCP). The Contractor must conduct the inventory in accordance with specifications contained in Section CC, Paragraph CC.8.4. The Government will provide written comments within 30 calendar days after receipt of the Inventory results. If the Government's comments are extensive, the Government may request that a second inventory draft be submitted.

EE.4.2.4.2 Response to Software Inventory Review

Upon receipt of the Government comments, the Contractor shall have 15 calendar days to make corrections, incorporate comments, if required, and deliver the software inventory findings and recommendations or, if requested in the Government comments, deliver a second draft of the inventory report. In the event a second draft of the report is required, the Contractor shall have 10 calendar days to re-submit the report.

EE.4.2.4.3 Inspection and Acceptance of Software Inventory

The Government will review and verify that all corrections have been made and comments, if any, are incorporated into the final software inventory findings and recommendations. If acceptable, the Government will provide the Contractor written notice of acceptance within 10 calendar days after receipt of the final inventory report.

EE.4.2.5 Site Conversion Plans (SCPs)

EE.4.2.5.1 Inspection of Site Conversion Plans (SCPs)

The Government will review and verify that each draft Site Conversion Plan (SCP) is complete and accurate and is in conformance with the accepted GCP. The Government will provide written comments on each draft SCP, including any necessary corrections within 30 calendar days from receipt of each draft SCP. If the Government's comments are extensive, the Government may request that a second draft SCP be submitted.

EE.4.2.5.2 Response to Draft Site Conversion Plan Comments

Upon receipt of the Government comments, the Contractor shall have 15 calendar days to make corrections, incorporate comments, if required, and deliver each final SCP, or, if requested in the Government comments, deliver a second draft of a SCP. In the event a second draft of a SCP is required, the Contractor shall have 15 calendar days to re-submit a draft of a SCP

EE.4.2.5.3 Inspection and Acceptance of Final Site Conversion Plans

The Government will review and verify that all corrections have been made and comments, if any, are incorporated into each final

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SCP. If acceptable, the Government will provide the Contractor written notice of acceptance within 10 calendar days after receipt of each final SCP.

EE.4.2.6 Perform Site Conversions

The Government will monitor and review site conversions to ensure that the Contractor performance during a site conversion is in accordance with the specifications detailed in the accepted GCP and SCP. The Government will also monitor the entire conversion process for each site to ensure that Contractor and Government resources are managed and used as specified in the Conversion Task Package (CTP) which is incorporated into each SCP. Each conversion task must be performed in accordance with the specifications contained in the accepted SCP and CTP.

Failure of the Contractor to successfully perform any of the site conversion tasks within the guidelines and schedule provided by the approved SCP may result in the termination of the SCP, in part or in whole.

EE.4.2.6.1 Work Package Acceptance

The Government will review each completed work package to ensure conformance with the specifications presented in Section CC, Paragraph CC.4.4.1. The work packages shall be reviewed to ensure that each individual component (programs, data files, OCL) has been converted to target environment specifications. Acceptance of the work package(s) as a functioning unit is specified in Section EE.4.2.6.7.

EE.4.2.6.2 Test Data Generation Acceptance

The Government will review and monitor the generation of test data to ensure conformance with specifications contained in Section CC, Paragraph CC.4.4.2. When test data generation tools/aids are required, the Contractor must use the accepted test generation tools/aids to generate test data files. The Contractor must correct any discrepancies reported by the Government. The Government will provide written acceptance of the generated test data files when all corrections, if required, have been completed.

EE.4.2.6.3 Application Software Conversion Acceptance

The Government will review the converted software to ensure conformance with specifications contained in Section CC, Paragraphs CC.4.4.3 and CC.8.4.1. The Contractor must use the accepted program translation tools/aids to convert all programs. The Contractor must correct any discrepancies reported by the Government. The Government will provide written acceptance of the converted software when all corrections, if required, have been completed.

EE.4.2.6.4 Data File Conversion Acceptance

The Government will review converted word processing documents and data files to ensure conformance with specifications contained in Section CC, Paragraphs CC.4.4.4 and CC.8.4.1. When file conversion tools/aids are required, the Contractor must use the accepted data file conversion tools/aids to convert data files. The Contractor must correct any discrepancies reported by the Government. The Government will provide written acceptance of the converted data files when all corrections, if required, have been completed.

EE.4.2.6.5 Operational Control Language (OCL) Acceptance

The Government will review converted and rewritten OCL to ensure conformance with specifications contained in Section CC, Paragraphs CC.4.4.5 and CC.8.4.1. The Contractor must use the accepted OCL conversion and development tools/aids to convert and write all OCL. The Contractor must correct any discrepancies reported by the Government. The Government will provide written acceptance of the converted and developed OCL when all corrections, if required, have been completed.

EE.4.2.6.6 Redocumentation Acceptance

The Government will review converted documentation to ensure conformance with specifications contained in Section CC, Paragraph CC.4.4.6. The Contractor must correct any discrepancies reported by the Government. The Government will provide written acceptance of the converted documentation when all corrections, if required, have been completed.

EE.4.2.6.7 Converted Work Packages and System Testing Acceptance

The Government will review the system testing of converted work packages to ensure conformance with specifications contained in Section CC, Paragraphs CC.4.4.7 and CC.8.4. The Contractor must use the accepted work package system testing tools/aids to system test converted work packages. The system testing of work packages shall verify the functionality of the work package(s) as a unit in the target environment. The Contractor must correct any discrepancies reported by the Government. The Government will provide written acceptance of the converted software when all corrections, if required, have been completed.

EE.4.2.6.8 User Training Acceptance

The Contractor shall provide the training materials, schedules and instructors necessary to provide user training. User Training acceptance shall be in accordance with the schedules and criteria defined in the accepted User Training Plan incorporated in the MCP, and specifications contained in Section CC, Paragraph CC.4.4.8.

EE.4.2.6.9 Parallel Operation Acceptance

EE.4.2.6.9.1 Performance Period

The performance period shall begin on the agreed upon software installation date provided in the approved SCP and, for future conversions, shall end when the software is operating for a period of thirty (30) consecutive calendar days in accordance with specifications contained in Section CC, Paragraph CC.8.6. Parallel operation for the initial development systems shall continue indefinitely in accordance with Section CC, Paragraph CC.6.4.5.

EE.4.2.6.9.2 Continuance of Performance Period

If the software does not operate for a period of thirty (30) consecutive calendar days in accordance with specifications contained in Section CC, Paragraph CC.8.6, the performance period shall continue on a day-by-day basis until the specifications are met for a total of 30 consecutive calendar days.

EE.4.2.6.9.3 Failure to Meet Standard of Performance

If the software fails to meet specifications after 30 consecutive calendar days from the installation date or start of the performance period, whichever is later, the Government, at its option, may terminate the SCP, in whole or in part, and may assess damages and penalties as appropriate.

EE.4.2.6.9.4 Date of Acceptance

The date of acceptance shall be the first day after a successful performance period.

EE.4.2.6.9.5 Performance Records and Tracking

The Government will maintain the appropriate daily records and shall notify the Contractor in writing of the date of the first day after the successful performance period.

EE.4.2.6.10 Optimization Reports

EE.4.2.6.10.1 Inspection of Optimization Reports

The Government will review and verify that the Optimization Reports are accurate and are in conformance with the specifications contained in Section CC, Paragraph CC.4.4.9. The Government will provide written comments on the reports, including any necessary corrections within 30 calendar days from receipt of a report. If the Government's comments are extensive, the Government may request that a second report be submitted.

EE.4.2.6.10.2 Response to Optimization Reports Comments

Upon receipt of the Government comments, the Contractor shall have 15 calendar days to make corrections, incorporate comments, if required, and deliver the final Optimization Reports, or, if requested in the Government comments, deliver a second draft of the report. In the event a second draft of the report is required, the Contractor shall have 10 calendar days to re-submit the report.

EE.4.2.6.10.3 Inspection and Acceptance of Optimization Reports

The Government will review and verify that all corrections have been made and comments, if any, are incorporated into the final Optimization Reports. If acceptable, the Government will provide the Contractor written notice of acceptance within 10 calendar days after receipt of the final reports.

EE.4.2.6.11 Development of Application Documentation

EE.4.2.6.11.1 Inspection of Application Documentation

The Government will review and verify that Application Documentation is accurate and is in conformance with the specifications contained in Section CC, Paragraph CC.4.4.10. The Government will provide written comments on the documentation, including any necessary corrections within 5 calendar days from receipt of a report. If the Government's comments are extensive, the Government may request that a second draft be submitted.

EE.4.2.6.11.2 Response to Application Documentation Comments

Upon receipt of the Government comments, the Contractor shall have 15 calendar days to make corrections, incorporate comments, if required, and deliver the final Application Documentation, or, if requested in the Government comments, deliver a second draft of the documentation. In the event a second draft is required, the Contractor shall have 10 calendar days to re-submit the documentation.

EE.4.2.6.11.3 Inspection and Acceptance of Application Documentation

The Government will review and verify that all corrections have been made and comments, if any, are incorporated into the final Application Documentation. If acceptable, the Government will provide the Contractor written notice of acceptance within 30 calendar days after receipt of the documentation.

EE.4.3 Conversion Tools and Aids

EE.4.3.1 Tool/Aid Software and Usage Documentation

The Government will review and verify that the tool/aid software and usage documentation is in conformance with the specifications contained in Section CC, Paragraph CC.5.1. The Government will provide written comments upon inspection of the software and documentation, including any necessary deviations from stated requirements within 30 calendar days from receipt of the software and documentation.

EE.4.3.2 Tools/Aids Optimization Report

EE.4.3.2.1 Inspection of Tools/Aids Optimization Report

The Government will review and verify that the Tools/Aids Optimization Report is accurate and is in conformance with the specifications contained in Section CC, Paragraph CC.5.1. The Government will provide written comments on the report, including any necessary corrections within 30 calendar days from receipt of the report. If the Government's comments are extensive, the Government may request that a second report be submitted.

EE.4.3.2.2 Response to Tools/Aids Optimization Report Comments

Upon receipt of the Government comments, the Contractor shall have 15 calendar days to make corrections, incorporate comments, if required, and deliver the final Tools/Aids Optimization Report, or, if requested in the Government comments, deliver a second draft of the report. In the event a second draft of the report is required, the Contractor shall have 15 calendar days to re-submit the report.

EE.4.3.3 Tool/Aid Test Reports

EE.4.3.3.1 Inspection of Tool/Aid Test Reports

The Government will review and verify that the Tools/Aids Test Reports are accurate and are in conformance with the specifications contained in Section CC, Subsection CC.5.1. The Government will provide written comments on the reports, including any necessary corrections within 30 calendar days from receipt of the reports. If the Government's comments on the report(s) are extensive, the Government may request that a second report(s) be submitted.

EE.4.3.3.2 Response Tool/Aid Test Report(s) Comments

Upon receipt of the Government comments, the Contractor shall have 15 calendar days to make corrections, incorporate comments, if required, and deliver the final Tool/Aid Test Report(s), or, if requested in the Government comments, deliver a second draft of the report(s). In the event a second draft of the report(s) is required, the Contractor shall have 15 calendar days to re-submit the report(s).

EE.4.3.4 Acceptance of Conversion Training

The Contractor shall provide the training materials, schedules and instructors necessary to provide conversion management, methodology, and tools and techniques training as specified in the accepted Conversion Training Plan. Conversion training acceptance shall be in accordance with the schedules and criteria defined in the accepted final Conversion Training Plan.

EE.4.3.5 Contractor Specified Deliverables and Schedule

EE.4.3.5.1 Acceptance of Contractors Specified Deliverables and Schedule

The Government will review Contractor specified deliverables and schedules to ensure conformance with the specifications contained in Section CC.

EE.4.3.5.2 Response to Comments

Upon receipt of the Government comments, the Contractor shall have 15 calendar days to make corrections, incorporate comments, if required, and deliver the final contractor specified deliverable and schedule.

EE.4.4 Systems

EE.4.4.1 Software Configuration Management System (SCMS)

EE.4.4.1.1 Inspection and Acceptance of the SCMS

The Government will review and test the SCMS software and usage documentation to ensure conformance with the specifications contained in Section CC, Paragraph CC.5.2. The Government will randomly review various implementations of the SCMS to ensure the accuracy and functionality of the software, and the usability of the SCMS user documentation. The Government will provide written comments detailing any deficiencies detected during the review or periodic monitoring of the SCMS and usage documentation.

EE.4.4.1.2 Response to the SCMS Review

Upon receipt of the Government comments, the Contractor shall have 30 calendar days to make any modifications and corrections, if required, to the SCMS and/or usage documentation.

EE.4.4.2 Work Package Monitoring and Tracking System (WPMTS)

EE.4.4.2.1 Inspection and Acceptance of the WPMTS

The Government will review the WPMTS and usage documentation to ensure conformance with the specifications contained in Section CC, Paragraph CC.5.3. The Government will randomly review various implementations of the WPMTS to ensure the accuracy and functionality of the WPMTS.

EE.4.4.2.2 Response to WPMTS Review

Upon receipt of the Government comments, the Contractor shall have 30 calendar days to make any modifications and corrections, if required, to the WPMTS and usage documentation.

EE.4.5 Status Reports

EE.4.5.1 Inspection and Acceptance of Status Reports

Until acceptance of the MCP, the Government will review the required MCP, GCP and SCP status reports to ensure conformance to the MCP, GCP and SCP reporting requirements in Section CC, Paragraphs CC.8.1, CC.8.2, and CC.8.3. After acceptance of the MCP, reporting requirements stated in the MCP will be used in lieu of the

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preceding documents. The Government will provide comments to the review(s), as necessary, within 15 calendar days after receipt of the report(s).

EE.4.5.2 Response to Status Reports

Upon receipt of the Government comments, the Contractor shall have 5 calendar days to make any modifications and corrections, if required, to the status reports.

September 12, 1986

SECTION F

DELIVERIES AND PERFORMANCE

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SECTION F

DELIVERIES AND PERFORMANCE

F.1 LIQUIDATED DAMAGES (HARDWARE/SOFTWARE)

F.1.1 Equipment (Hardware) and Software

When equipment or software is not delivered and installed according to the delivery schedule, the Government must make alternative arrangements, usually at additional cost to the Government, to compensate for the absence of the equipment or software. Also the Government may have hired temporary staff for the transition period, and the anticipated productivity gains from the use of the new equipment or software cannot be realized. Therefore, for non-delivery and installation of the equipment or software by the scheduled installation date, the Contractor shall be required to pay to the Government, as fixed and agreed, liquidated damages for each calendar day's delay beginning with the day following the scheduled installation date specified on the individual purchase or delivery orders. Since the Government's added cost resulting from the Contractor's failure to deliver as scheduled is not precisely determinable and, in fact, will vary in each situation, liquidated damages shall be computed at the daily rate (calendar) of 0.1175% of the purchase price for equipment or software irrespective of whether the equipment or software is actually rented or purchased. Liquidated damages shall cease on the day that the condition causing their assessment has been remedied or following their application for 90 consecutive calendar days, whichever first occurs.

F.1.1.1 Total System

The Contractor is expected to install all the equipment and deliver the operating software, in accordance with his functional specifications (identified in Volume II-A, and Tables B-1 and B-2 in Section 1, Volume III), including the special features and accessories included on the same order with the equipment and software. If the Contractor fails to fulfill this requirement and, as a result, no portion of the total system is ready for use on the installation date specified in the delivery order, liquidated damages shall be assessed as provided for in Paragraph F.1.1.

F.1.1.2 Machines

When an installation date is specified on a delivery order for machines to be added subsequent to the initial system installation date, and the Contractor fails to install, ready for use, any such machines (including special features, any required operating software, and accessories) by the specified installation date, liquidated damages shall be assessed, as provided for in Paragraph F.1.1, for each machine(s) which cannot be used as a direct result of the delay.

F.1.1.3 Partial Installation

If some, but not all, of the equipment and software on the purchase order is installed, ready for use, by the installation date specified on the delivery order, and if the Government uses any such installed equipment or software, liquidated damages shall not be assessed against those items for any day on which they are used, but shall be assessed, as provided for in Paragraph F.1.1, for those days on which the equipment cannot be used.

F.1.2 Equipment (Hardware)

F.1.2.1 Substitute Equipment

If the Contractor provides suitable substitute equipment agreed to by the Government, on or before the installation date specified on the purchase order, no liquidated damages shall apply to ordered equipment for which substitute equipment was agreed to.

F.1.2.2 Replacement Equipment

If the Contractor fails to install all the equipment identified on the delivery order, and as specified in Volume III, Section B, including the special features and accessories included on the same order with the equipment, the Government may obtain replacement equipment. In this event, the Contractor shall be liable for liquidated damages beginning with the day following the scheduled installation date until the replacement equipment is installed, ready for use, or for 90 calendar days whichever first occurs.

F.1.3 Software

F.1.3.1 Operating Software

If the Contractor fails to deliver, on or before the specified installation date on the purchase order, all of the ordered operating software or if the delivered operating software fails to conform to the functional descriptions set forth in Section C, then the provisions of F.1.1 shall apply with respect to liquidated damages.

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F.1.3.2 Other Software

If the Contractor fails to demonstrate and provide written certification that the ordered software with the exception of Operating Software has been furnished by the day following the scheduled installation date on the delivery order and in accordance with the functional description provided by the Contractor in Volume II-A, liquidated damages shall be assessed as provided for in Paragraph F.1.1.

F.1.3.3 Replacement Software

If the Government terminates the right of the Contractor to install the equipment in accordance with Paragraph F.1.2.2, the Contractor shall be liable for liquidated damages, as provided for in Paragraph F.1.1, for the period of time beginning with the eighth day following the specified installation date on the delivery order and the date the software for the replacement equipment is installed ready for use, or 90 calendar days, whichever first occurs.

F.1.3.4 Substitute

If the Contractor provides suitable substitute software, agreed to by the Government, on or before the specified delivery date, no liquidated damages shall apply to ordered software for which substitute software was agreed to.

F.1.4 Repair and Return (R&R)

If the Contractor does not repair and return the foreign TEMPEST equipment as provided for in Paragraph C.14.12.2.1, within 30 calendar days after receipt by the Contractor, a credit shall be granted to the Government in the amount of one-half of a percent of the contracted cost for each day beyond the initial 30 calendar days. The total credit to the Government shall not exceed the total monthly R&R cost or the Contractor's cost to effect repair or replacement of the defective equipment, whichever is less. Only identical replacement parts shall be used in effecting repairs.

F.1.5 Foreign TEMPEST Equipment

If at any time during the life of the contract, the Contractor's equipment becomes inoperative due to component failure, and has to be returned by the Government for repair more than three times over a period of 150 consecutive calendar days, the Government may require at its option, and at no additional cost, either an on-site back-up component(s) or replacement of the malfunctioning equipment with equipment which conforms to the requirements of this RFP.

F.1.6 Exception

Except with respect to defaults of subcontractors, the Contractor shall not be liable for liquidated damages when delays arise from causes beyond the control of and without the fault or negligence of the Contractor. Such causes may include, but are not restricted to, Acts of God or of the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; but in every case the delay must be beyond the control of and without the fault or negligence of the Contractor. If the delays are caused by the default of a subcontractor, and such default arises out of causes beyond the control of both the Contractor and the subcontractor and without the fault or negligence of either of them, the Contractor shall not be liable for liquidated damages for delays, unless the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the Contractor to meet the required delivery date.

F.2 EQUIPMENT REPLACEMENT

F.2.1 Mechanical Replacement

When mechanical replacement is required under the provisions of F.9 of this contract, a replacement period of up to thirty (30) calendar days shall be established, at the option of the Government.

F.2.2 Performance Acceptance Period

This period shall commence on the installation date of the replacement machine.

F.2.3 Charges

No rental/lease or maintenance charges will be paid during the replacement period for the equipment being replaced.

F.3 MAJOR FIELD MODIFICATIONS

F.3.1 Modifications

If the Government requests on-site field modification of equipment, the Contractor shall provide it on the same basis as furnished to other customers for the same type of equipment as supplied under the contract. Engineering changes may also be sponsored by the Contractor. For foreign TEMPEST equipment, Government personnel will make field modifications or alterations after receipt of a Field Change Order and/or modification from the contractor.

F.3.2 Charges

Rental/lease and maintenance charges will be discontinued on the equipment being modified and for any equipment supplied under this contract which is not usable during the modification period on the day the equipment is turned over to the Contractor for modification. When the modification is requested by the Government, rental/lease and maintenance shall not be discontinued when such modification results in the equipment remaining inoperative for a period of twenty-four (24) consecutive hours or less. Rental/lease and maintenance charges will be reinstated upon certification in writing by the Contractor that the equipment is ready for use. The modified equipment and associated operating software are subject to the provisions of Paragraph E.1, provided the modification results in a model change.

F.4 ALTERATIONS AND ATTACHMENTS

F.4.1 Government Alterations

Upon thirty (30) calendar days' written notice, the Government may make alterations or install attachments to the Contractor's equipment, provided that such action will not create a safety hazard. The Government shall assume full liability for any damages and/or degradation in equipment performance attributable directly to such alteration or attachment. In addition, the maintenance credit provisions set forth in Subsections, F.8 and F.9 of this Solicitation Document shall not apply when equipment failure is caused by an alteration or attachment not supplied by the Contractor.

F.4.2 Maintenance Charges

If alterations made by the Government increase the cost of maintenance, mutually agreeable arrangements for additional maintenance under any contract resulting from this solicitation, as applicable, shall be made for each installation.

F.4.3 Removal of Alterations or Attachments

Before discontinuance of rental/lease, the Government shall remove alterations or attachments which are not the property of the Contractor, and the equipment shall be restored to the prior configuration at Government expense.

F.4.4 Reprogramming

Any reprogramming agreed to by the Contractor which is required to accommodate such alterations and/or attachments will be accomplished at the Government's expense upon approval by the Government of a Fixed-Price Proposal for the required reprogramming.

F.5 RELOCATION OF EQUIPMENT

F.5.1 Emergency Movement

Except in an emergency, equipment shall not be moved from the general location in which installed unless the Contractor has been notified that a move is to be made.

F.5.2 Authorized Movement

Upon written notification to the Contractor by the Contracting Officer, Contracting Officer's Technical Representative, or a duly authorized representative designated by the Contracting Officer, equipment may be transferred from one Government location to another under any contract resulting from this solicitation. Rental/lease and maintenance charges shall be suspended on the day that dismantling of the equipment is begun in preparation for shipment and during the period of transfer not to exceed thirty (30) calendar days, provided the transfer time exceeds one (1) calendar day. There will be no cessation of rental/lease and maintenance charges, however, if equipment to be transferred has been installed at the site for less than three (3) months or will be installed at the new location for less than three (3) months. Rental/lease and maintenance charges shall be reinstated on the day that the Contractor completes reassembling the equipment and certifies in writing that it is ready for use.

F.5.3 Supervision

The Government shall furnish necessary labor for packing and unpacking the equipment. The Contractor shall supervise packing, unpacking, and relocation of the equipment at the Contractor's regular PPM maintenance service per-call rate, provided that the Contractor charges his commercial customers for similar services associated with the relocation. All other costs associated with the relocation shall be the responsibility of the Government.

F.5.4 Notice

The Government shall give at least thirty (30) calendar days written notice of movement of equipment unless such movement is required because of an emergency. Such relocation shall be by electronic padded van or air freight at the Government's expense.

F.5.5 Geographic Area

If the equipment is relocated in a geographic area where the Contractor does not have the necessary and required facilities or if the Contractor will incur additional support costs at the new locations, then continued applicability at the new location of any contract resulting from this solicitation shall be subject to mutual agreement.

F.6 TRANSPORTATION OF EQUIPMENT

F.6.1 Domestic Transportation

All shipments to and from Government sites shall be prepaid by the Contractor and separately invoiced to the Government, except that the Contractor shall pay all shipping costs when the equipment is moved by the Contractor for mechanical replacement purposes. The Contractor shall make all arrangements for transportation and shall ship on Commercial Bills of Lading. The Government will ship all foreign TEMPEST equipment to its ultimate destination from its Springfield, Virginia facility. Shipping costs shall not be included in the purchase, lease or rental prices quoted by Offerors and they shall not be considered for evaluation purposes.

F.6.2 Foreign Transportation

The provisions of paragraph F.6.1 shall apply for all foreign shipments. All shipments of non-TEMPEST equipment to and from foreign sites shall be by commercial air carrier selected by the Contractor or by Government designated air carrier, whichever is the lower in cost. The DOS will provide the Contractor with a schedule of rates for Government designated air carriers. If the Contractor elects to use a carrier other than a Government designated carrier, the reason therefore and the Government designated carrier rate must be entered on the invoice to the Government for transportation. All equipment and parts will be processed through the use of Duty Free Entry provisions with the host countries which exclude such items from duty provisions when they are for the sole use of the U.S. Government. All equipment and/or parts not purchased by the Government upon expiration of this contract and which remain in the host country will be subject to the applicable duty provisions of the host country. Any delays or failure to deliver caused by delay or failure to obtain host nation clearance shall be considered an event of "force majeure."

F.6.3 Rigging and Drayage

The Government shall pay only those rigging and drayage costs incurred at the Government's location, except that the Contractor shall pay all rigging and drayage costs when the equipment is moved by the Contractor for mechanical replacement purposes.

F.6.4 Non-TEMPEST and Domestic TEMPEST Installation Schedule

The Contractor shall install the non-TEMPEST and the domestic TEMPEST hardware and software, as set forth in Section C, ready for use in accordance with the delivery dates specified in the individual purchase orders.

F.6.5 Foreign TEMPEST Installation Schedule

The Contractor shall deliver all foreign TEMPEST equipment, software, spare parts and fiber-optic systems in accordance with the delivery dates specified on the individual purchase orders to the following address:

Department of State
7500 Boston Blvd.
Fullerton Industral Park
Springfield, Virginia 22153
Attention: OC/ML

Department of State personnel will inspect the equipment and prepare it for shipment to its ultimate destination. Upon arrival, DOS personnel will install the equipment, software and fiber-optic systems in accordance with the engineering drawings and documentation provided by the Contractor.

F.7 DELIVERY REQUIREMENTS AND OPTIONS

F.7.1 The Government reserves the right to delay the installation by up to thirty (30) calendar days, at no additional cost to the Government, provided that:

a. The Contractor shall receive written notice from the Contracting Officer thirty (30) calendar days prior to the scheduled installation date.

b. Any installation delays beyond thirty (30) calendar days shall be mutually agreed to by the Contractor and the Government.

The Government further reserves the right to change the sequence of installation sites under the same (a) and (b) provisions of this paragraph.

F.7.2 If the equipment is certified to be ready for use prior to the installation date specified in the purchase order, the Government, at

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its option, may elect to use the equipment and change the installation date accordingly. In this event, the purchase order shall be so amended by the Government.

F.7.3 The Government agrees to have the site prepared in accordance with the Contractor's written site specifications by seven (7) calendar days prior to the scheduled installation date, unless a shorter period of time is agreed to in writing.

F.7.4 The Government shall provide the Contractor with access to the site for the purpose of installing the equipment prior to the scheduled installation date. The Contractor shall specify in writing the time required to install the equipment.

F.7.5 Delivery of the items added by exercise of the options stated in Paragraph I.3.1 shall be as set forth in the purchase order.

F.8 MAINTENANCE RESPONSE TIME CREDITS

The amount of creditable Principal Period of Maintenance (PPM) hours (for failure to arrive within the response time designated in Section C.14.6) shall be accumulated for the month and adjusted to the nearest hour. The amount of credit for each hour in excess of the specified response time shall be computed at the rate of one-half of a percent of the Total Monthly Maintenance Charges for that site. The total credit during any month shall not exceed the Total Monthly Maintenance Charge for that site.

F.9 DOWNTIME CREDITS

F.9.1 Definition

System downtime is that period of time when the system is inoperative and no scheduled workload can be accomplished due to a malfunction in the Contractor-supplied equipment or operating software or the system is inoperative and no scheduled workload can be accomplished because the system is released to the Contractor for remedial services.

F.9.2 Period of Downtime

Downtime shall commence at the time of the actual contact with the Contractor's maintenance representative at the designated point of contact or with the Contractor's answering service or other continuous telephone coverage provided to permit the Government to make such contact. Downtime shall end when the system or machine is returned to the Government in operable condition, including operating software regeneration, if required, ready to perform the scheduled workload.

F.9.3 Credit for System Downtime

If the system remains inoperative and cannot perform the scheduled workload due to an equipment or operating software malfunction through no fault or negligence of the Government for a period greater than the consecutive Principal Period of Maintenance (PPM) hours as indicated in Figure F-1 or more than the non-consecutive hours indicated in Figure F-1 during a 3-day period, the Contractor shall grant a credit to the Government for each hour of downtime in the amount of one-half of a percent of the Total Monthly Charges, as defined in Section J, Attachment I - Glossary, due under this contract. However, upon presentation to the Contracting Officer's Technical Representative (COTR) of convincing documentation, no credit shall be due the Government for operating software malfunctions when (i) the malfunction is not attributable solely to the Contractor-supplied software, or (ii) the Government has made any additions or alterations or otherwise modified the operating software. The credit for system downtime shall be computed to the nearest half or whole hour. No credit shall accrue to the Government during those periods when the Contractor is denied access to the equipment and the amount of credit granted shall not exceed 1/30th of the Total Monthly Charges for any calendar day.

F.9.4 Credit for Equipment Downtime

If a machine(s) remains unusable due to an equipment or operating software malfunction, through no fault or negligence of the Government for a period greater than the consecutive Principal Period of Maintenance hours as indicated in Figure F-1 or more than the non-consecutive hours indicated in Figure F-1 during a 3-day period, the Contractor shall grant a credit to the Government for each hour of downtime in the amount of one-half of a percent of Total Monthly Charges due under this contract, as defined in Section J, Attachment I - Glossary, plus similar credits for any other machine(s) supplied under this contract not usable as a result of the malfunction. No credit shall accrue to the Government during those periods when the Contractor is denied access to the equipment. The amount of credit granted under this paragraph for each machine shall not exceed 1/30th of the Total Monthly Charge for the machine for any calendar day. Credit for equipment or software malfunctions shall be computed to the nearest half or whole hour. However, upon presentation to the Contracting Officer's Technical Representative (COTR) of convincing documentation, no credit shall be due to the Government for operating software malfunctions when (i) the malfunction is not attributed solely to the Contractor supplied software or (ii) the Government has made additions or alterations or otherwise modified the operating software. During a period of downtime, the Government may use operable equipment when such action does not interfere with remedial maintenance. The credit provisions of this paragraph do not apply when Paragraph F.9.3 is invoked.

F.9.5 Purchased System or Equipment

For purchased systems or equipment, downtime credits apply only during the period in which the Contractor has maintenance responsibility.

F.10 MACHINE REPLACEMENT

If a rental machine becomes inoperative due to machine failure, and the total number of such inoperative hours exceeds thirty-six (36) Principal Period of Maintenance hours during each of three (3) consecutive calendar months, the Contractor shall:

a. Provide an on-site back-up machine at no additional cost; or

b. Provide on-site technical support personnel at no additional cost; or

c. Replace the malfunctioning machine with a functionally equivalent machine in good operating condition at no additional cost to the Government with accrued purchase option credits transferred to the replacement machine.

F.11 52-212-9 VARIATION IN QUANTITY (APR 1984)

a. A variation in the quantity of any items called for by this contract will not be accepted unless the variation has been caused by conditions of loading, shipping, or packing, or allowances in manufacturing processes, and then only to the extent, if any, specified in paragraph b.

b. The permissible variation shall be limited to:

Zero (0) Percent increase   Zero (0) Percent decrease

This increase or decrease shall apply to quantity of each item without regard to destination.

(End of clause)

F.12 DELIVERY DATES

All hardware, software and support services ordered from the Contractor pursuant to this contract shall be ordered through the issuance of Delivery Orders. The time and place of delivery shall be

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Geographical Area	Consecutive PPM Hours	Non-consecutive Hours
United States	8	10
Canada	8	10
Northern Europe (Belgium, the Netherlands, Denmark, Ireland, Luxembourg, Norway, Sweden, United Kingdom, Finland)	10	12
Central Europe (Austria, Federal Republic of Germany, Switzerland)	10	12
Eastern Europe (German Democratic Republic, Albania, Bulgaria, Czechoslovakia, Hungary, Baltic States, Poland, Romania, Yugoslavia, Union of Soviet Socialists Republics)	12	14
Southern Europe (Cyprus, Greece, Turkey, Malta)	12	14
Western Europe (France, Italy, Spain, Portugal)	10	12

Figure F-1
DOWNTIME CRITERIA BY GEOGRAPHICAL AREA

Geographical Area Hours	Consecutive PPM Hours	Non-consecutive
Iceland and Bermuda	12	14
Africa I (Kenya, Nigeria, Liberia, Senegal, Ivory Coast South Africa, Egypt, Zaire, Swaziland, Zimbabwe, Tunisia, Morocco)	10	12
Africa II (All other countries in Africa)	14	16
Asia I (Thailand, Indonesia, Malaysia, Hong Kong, The Philippines, Singapore, Peoples Republic of China, Taiwan)	10	12
Asia II (Burma, Laos, Brunei)	18	20
Japan and Korea	10	12
Australia, New Zealand, Fiji and Papua New Guinea	10	12
Andean (Boliva, Columbia, Ecuador, Peru, Venezuela)	12	14
Caribbean (Antigua, Barbuda, Barbados, Bahamas, Cuba, Dominican Republic, Haiti, Grenada, Guayana, Surinam, Netherlands Antilles, Jamaica, Trinidad, Tobago)	14	16
Southern South America (Brazil, Argentina, Chile, Paraguay, Uruguay)	12	14

Figure F-1 (Cont'd)
DOWNTIME CRITERIA BY GEOGRAPHICAL AREA

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Geographical Area	Consecutive PPM Hours	Non-consecutive Hours
Mexico	10	12
Central America (Guatemala, Belize, El Salvador, Honduras, Nicaragua, Costa Rica, Panama)	12	14
Near East I (Jordan, Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, United Arab Emirates, Yemen)	12	14
Near East II (Iraq, Lebanon, Syria)	18	20
Israel	12	14
South Asia I (India, Nepal, Sri Lanka, Pakistan, Bangladesh)	12	14
South Asia II (Bhutan, Maldives, Afghanistan)	18	20

Figure F-1 (Cont'd)
DOWNTIME CRITERIA BY GEOGRAPHICAL AREA

stated in the Delivery Order and, when so stated, shall supercede similar provisions elsewhere in this contract. In any instance of conflict between the delivery order and this contract, except for time and place of delivery, the provisions of this contract shall govern. In no event will the contractor be required to deliver any system or equipment in less than 60 days from the issuance of a delivery order. The contractor, however, is expected to make the best effort to deliver all equipment ordered as expeditiously as possible.

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SECTION FF

CONVERSION DELIVERIES OR PERFORMANCE

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SECTION FF

CONVERSION DELIVERIES OR PERFORMANCE

FF.1 DELIVERABLES

FF.1.1 General

This Section deals with deliverables in connection with software and datafiles conversion. Specific deliverables and schedules for their preparation, delivery and acceptance will be mandated by delivery orders, the Master Conversion Plan, various Group Conversion Plans and/or Site Conversion Plans, as appropriate. Deliverables and reports shall be made to the person or persons designated in the individual delivery order(s) or Plan.

FF.1.2 Deliverable Items

Each type of contract deliverable is identified by contract line item number (CLIN), cross-referenced and defined in Figure FF-3-1. Figure FF-3-2 provides a cross-reference by categories of deliverables, and Figure FF-3-3 provides the delivery schedule for each item.

FF.2 CLAUSES INCORPORATED BY REFERENCE

This contract incorporates the following clauses by reference, with the same force and effect as if they were given in full text. Upon request, the CO will make their full text available.

FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CLAUSES

CLAUSE NO.	CLAUSE TITLE
52.212-13	Stop-Work Order (APR 1984)

FF.3 DELIVERY OF SITE CONVERSION PLANS

When the Contractor is responsible for the Site Conversion Plan and the associated activities, Government acceptance of new systems or equipment which requires conversion of programs, data files and/or databases shall be withheld until the Contractor delivers to the Government, and the Government accepts, a Site Conversion Plan for all training, software conversion, files conversion and database conversion at that site, including the installation of all standard production systems to be installed at that site.

FF.4 LIQUIDATED DAMAGES

FF.4.1 Late Delivery of Converted Systems

Liquidated damages will be assessed for each day of delay of conversion due to late delivery of conversion tasks or other associated deliverables in connection with site conversion when the Government is required to continue to operate two systems in parallel. Irrespective of whether the system or equipment is purchased, rented or leased, the daily rate (calendar) of liquidated damages shall be 0.235% of the purchase cost of the equipment or system requiring conversion. Liquidated damages shall not be assessed for a period exceeding 90 calendar days.

FF.4.1.1 Non-Delivery of Converted Systems

If, following a delay of 90 calendar days, whether or not liquidated damages have been assessed, the Contractor has failed to convert all software, data files and databases to operate on the new equipment or system, the Government may, at its option, return for full credit at the Contractor's expense the equipment or system requiring the conversion, or find the Contractor in default and avail itself of such remedies as are specified in the default clause of this contract.

FF.4.2 Late Delivery - Training

If training is not conducted as scheduled, the contractor shall pay to the Government liquidated damages of $125.00 per student day for each student who is absent from his normal duty station for training purposes plus actual student travel and lodging expenses, if applicable.

FF.4.3 Exceptions

Except for default of subcontractors, the Contractor shall not be liable for liquidated damages when delays arise from causes beyond the control of and without the fault or negligence of the Contractor. Such cases may include, but are not restricted to, acts of God or of the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes and unusually severe weather; but, in every case, the delay must be beyond the control and without the fault or negligence of the Contractor.

If the delays are caused by the default of a subcontractor, and such default arises out of causes beyond the control of both the Contractor and the subcontractor and without the fault or negligence of either of them, the Contractor shall not be liable for liquidated damages for delays, unless the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the Contractor to meet the required performance schedule.

FF.5 DELIVERY INSTRUCTIONS

FF.5.1 Delivery of Plans

The Contractor shall provide three (3) copies of all MCP, GCP, and SCP plan drafts.

The Contractor shall provide one original suitable for photo-reproduction and three (3) copies of all final plans.

FF.5.2 Delivery of Conversion Tasks

All conversion tasks shall be delivered in accordance with the applicable Government approved SCP.

FF.5.3 Delivery of Conversion Tools/Aids

The conversion tools/aids software shall be delivered in accordance with the accepted MCP and associated delivery order(s).

FF.5.4 Delivery of Systems

All deliveries for pickup and return shall be the responsibility of the Contractor. All systems shall be delivered in accordance with the accepted MCP and GCPs and associated delivery order(s).

FF.5.5 Delivery of Status Reports

The Contractor shall provide four (4) copies of all status reports to the COTR. In addition, status reports required in accordance with Government approved MCPs, GCPs and SCPs shall be delivered as stated in those documents.

PHASE I DELIVERABLES

CLIN	CC REF. SECTION	EE REF. SECTION	DESCRIPTION
4001	CC.6.2.4	EE.4.1	Conversion Training Plan
4002	CC.6.2	EE.4.1	Master Conversion Plan
4003	CC.5.1	EE.4.3.1	Conversion Tools/Aids
4004	CC.5.1	EE.4.3.2	Tools/Aids Optimization Report
4005	CC.5.1.1	EE.4.3.3	Test File Generation Tools/Aids Test Report
4006	CC.5.1.2	EE.4.3.3	Test Path Tools/Aids Test Report
4007	CC.5.1.3	EE.4.3.3	Language Specific Tools/Aids Test Report
4008	CC.5.1.4	EE.4.3.3	File Conversion Tools/Aids Test Report
4009	CC.5.1.5	EE.4.3.3	Work Package Tools/Aids Test Report
4010	CC.5.2	EE.4.4.1	Software Configuration Management System (SCMS)
4011	CC.5.3	EE.4.4.2	Work Package Monitoring and Tracking System (WPMTS)
4012	CC.6.4.1	EE.4.1	Final Group Conversion Plan for Initial Development Sites
4013	Costing-CLIN		(Refer to Section B)

Figure FF-3-1 (SHEET 1 OF 6)

DELIVERABLES CROSS-REFERENCE

PHASE I DELIVERABLES (CONT')

CLIN	CC REF. SECTION	EE REF. SECTION	DESCRIPTION
4014	CC.6.4.1	EE.4.2.5	Final Site Conversion Plans (SCP) for Initial Development Sites
4015	CC.4.4.1	EE.4.2.6.1	Initial Conversion Work Packages
4016	CC.4.4.2	EE.4.2.6.2	Initial Conversion - Test Data Generation
4017	CC.4.4.3	EE.4.2.6	Initial Conversion of Standard Applications and Glossaries
4018	CC.4.4.4	EE.4.2.6.4	Initial Conversion of Data Files
4019	CC.4.4.5	EE.4.2.6.5	Initial Conversion of Operational Control Language (OCL)
4020	CC.4.4.6	EE.4.2.6.6	Initial Conversion Redocumentation
4021	CC.4.4.7	EE.4.2.6.7	Initial Conversion Work Package and System Testing
4022	CC.6.4.5	EE.4.2.6.9	Initial Development Site Parallel Testing - Source - Systems
4023	CC.4.4.9	EE.4.2.6.10	Initial Conversion Optimization Reports
4024	Costing CLIN		(Refer to Section B)

Figure FF-3-1 (SHEET 2 OF 6)

DELIVERABLES CROSS-REFERENCE

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PHASE I DELIVERABLES (CONT'D)

CLIN	CC REF. SECTION	EE REF. SECTION	DESCRIPTION
4027	Costing CLIN		(Refer to Section B)
4029	Costing CLIN		(Refer to Section B)
4055	CC.6.4.5	EE.4.2.6.9	Initial Development Parallel Testing - Target Systems
6100	CC.6.3	EE.4.3.4	Phase I Conversion Training
6200	CC.4.4.8	EE.4.2.6.8	Initial Conversion User Training
7100	CC.5	Applicable Tool/Aid, System Acceptance	Manuals and Publications

Figure FF-3-1 (SHEET 3 OF 6)

DELIVERABLES CROSS-REFERENCE

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PHASE II DELIVERABLES

CLIN	CC REF. SECTION	EE REF. SECTION	DESCRIPTION
4023	CC.4.4.9	EE.4.3.2.1	Initial Conversion Optimization Reports
4024	CC.5.4	N/A	Development Site Ongoing Operations
4025	CC.7.3	EE.4.1	All other GCPs
4026	Costing CLIN		(Refer to Section B)
4027	Costing CLIN		(Refer to Section B)
4028	Costing CLIN		(Refer to Section B)
4029	Costing CLIN		(Refer to Section B)
4030	Costing CLIN		(Refer to Section B)
4033	CC.7.4	EE.4.3.5	Contractor Specified Deliverables and Schedule
4034	CC.7.4	EE.4.3.5	Contractor Specified Deliverables and Schedule
4035	CC.7.4	EE.4.3.5	Contractor Specified Deliverables and Schedule
4036	CC.7.4	EE.4.3.5	Contractor Specified Deliverables and Schedule
4037	CC.7.4	EE.4.3.5	Contractor Specified Deliverables and Schedule
4038	CC.7.4	EE.4.3.5	Contractor Specified Deliverables and Schedule

Figure FF-3-1 (SHEET 4 OF 6)

DELIVERABLES CROSS-REFERENCE

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PHASE III DELIVERABLES

CLIN	CC REF. SECTION	EE REF. SECTION	DESCRIPTION
4032	CC.5.1.4	EE.4.3.3	WP Document Conversion - Future Systems
4039	CC.8.1	EE.4.2.1	Master Conversion Plan (MCP) Management and Status Reports
4040	CC.8.2	EE.4.2.2	Group Conversion Plans (GCPs) Management and Status Reports
4041	CC.8.3	EE.4.2.3	Site Conversion Plans (SCPs) Management and Status Reports
4042	CC.8.4	EE.4.2.4	Software Inventory
4043	CC.8.4	EE.4.2.5	Draft of Site Conversion Plans (SCPs)
4044	CC.4.4.1	EE.4.2.6.1	Work Packages Completion
4045	CC.4.4.2	EE.4.2.6.2	Test Data Generation
4046	CC.4.4.3	EE.4.2.6	Application Software Conversion
4047	CC.4.4.4	EE.4.2.6.4	Data File Conversion
4048	CC.4.4.5	EE.4.2.6.5	Operation Control Language (OCL) Conversion
4049	CC.4.4.6	EE.4.2.6.6	Redocumentation
4050	CC.4.4.7	EE.4.2.6.7	Converted Work Package and System Testing

Figure FF-3-1 (SHEET 5 OF 6)

DELIVERABLES CROSS-REFERENCE

PHASE III DELIVERABLES (CONTINUED)

CLIN	CC REF. SECTION	EE REF. SECTION	DESCRIPTION
4051	CC.4.4.9	EE.4.3.2.1	Optimization Reports
4052	CC.4.4.10	EE.4.2.6.11	Development of Application Documentation
4053	CC.8.4	EE.4.2.5	Final Site Conversion Plan
4054	CC.8.6	EE.4.2.6.9	Parallel Testing - Future Source Systems
4055	CC.8.6	EE.4.2.6.9	Parallel Testing - Initial Target Systems
4056	CC.8.6	EE.4.2.6.9	Parallel Testing - Future Target Systems
6300	CC.4.4.8	EE.4.2.6.8	User Training

Figure FF-3-1 (SHEET 6 OF 6)

DELIVERABLES CROSS-REFERENCE

CATEGORY	CLIN	CLIN	CLIN	CLIN	CLIN
Plans	4001	4002	4012	4014	4025
	4026	4027	4028	4029	4030
	4031	4032	4033	4034	4035
	4036	4037	4043	4053	
Conversion Tasks	4013	4015	4016	4017	4018
	4019	4020	4021	4022	4023
	4024	4032	4042	4044	4045
	4046	4047	4048	4049	4050
	4051	4052	4054	4055	4056
Tools/Aids	4003	4004	4005	4006	4007
	4008	4009			
Systems	4010	4011			
Status Reports	4039	4040	4041		
Training	6100	6200	6300		
Manuals and Publications	7100				

Figure FF-3-2

CATEGORIES OF DELIVERABLES

CLIN	WITHIN WEEKS AFTER DATE OF CONTRACT	DELIVERY/PERFORMANCE LOCATION
4001	Two (2) weeks	Main DOS
4002	Four (4) weeks	Main DOS
4003	Four (4) weeks	Main DOS
4004	Four (4) weeks	Main DOS
4005	Four (4) weeks	Main DOS
4006	Four (4) weeks	Main DOS
4007	Four (4) weeks	Main DOS
4008	Four (4) weeks	Main DOS
4009	Four (4) weeks	Main DOS
4010	Four (4) weeks	Main DOS and various sites per GCPs software configuration management plan
4011	Four (4) weeks	Main DOS and various sites per SCPs
4012	Four (4) weeks	Main DOS
4014	Four (4) weeks*	Main DOS
4015	Per applicable SCP	Per Initial Application GCP

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* The initial development site GCP and SCPs may be accepted as provided in the vendor proposal. If changes are required to these documents, the changes will be made in accordance with E.4.2.5.

Figure FF-3-3 (SHEET 1 OF 4)

PERFORMANCE/DELIVERY SCHEDULE

CLIN	WITHIN WEEKS AFTER DATE OF CONTRACT	DELIVERY/PERFORMANCE LOCATION
4016	Per applicable SCP	Per Initial Application GCP
4017	Per applicable SCP	Per Initial Application GCP
4018	Per applicable SCP	Per Initial Application GCP
4019	Per applicable SCP	Per Initial Application GCP
4020	Per applicable SCP	Per Initial Application GCP
4021	Per applicable SCP	Per Initial Application GCP
4022	Per applicable SCP	Per Initial Application GCP
4023	Per applicable SCP	Per Initial Application GCP
4024	Per RFP	Per Figure CC.6-3
4025	Per Section CC, Figure CC-7-1	Main DOS or as required by the GCP
4026	Per applicable SCP	Per Applicable GCP
4027	Per applicable SCP	Per Initial Application GCP
4028	Per applicable SCP	Per Applicable GCP
4029	Per applicable SCP	Per Initial Application GCP

Figure FF-3-3 (SHEET 2 OF 4)

PERFORMANCE/DELIVERY SCHEDULE

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CLIN	WITHIN WEEKS AFTER DATE OF CONTRACT	DELIVERY/PERFORMANCE LOCATION
4030	Per applicable SCP	Per applicable GCP
4031	RESERVED	
4032	Per applicable SCP	Per applicable GCP
4033	Per MCP schedule of Contractor specified	Main DOS or as required by MCP
4034	Per MCP schedule of Contractor specified	Main DOS or as required by MCP
4035	Per MCP schedule of Contractor specified	Main DOS or as required by MCP
4036	Per MCP schedule of Contractor specified	Main DOS or as required by MCP
4037	Per MCP schedule of Contractor specified	Main DOS or as required by MCP
4038	Per MCP schedule of Contractor specified deliverables	Main DOS or as required by MCP
4039	Per MCP	Per MCP
4040	Per applicable GCP	Per MCP and applicable GCP
4041	Per applicable SCP	Per GCP and applicable SCP
4042	Per applicable GCP	Per applicable GCP
4043	Per applicable SCP	Per applicable GCP
4044	Per applicable SCP	Per applicable GCP
4045	Per applicable SCP	Per applicable GCP

Figure FF-3-3 (SHEET 3 OF 4)

PERFORMANCE/DELIVERY SCHEDULE

CLIN	WITHIN WEEKS AFTER DATE OF CONTRACT	DELIVERY/PERFORMANCE LOCATION
4046	Per applicable SCP	Per applicable GCP
4047	Per applicable SCP	Per applicable GCP
4048	Per applicable SCP	Per applicable GCP
4049	Per applicable SCP	Per applicable GCP
4050	Per applicable SCP	Per applicable GCP
4051	Per applicable SCP	Per applicable GCP
4052	Per applicable SCP	Per applicable GCP
4053	Per applicable SCP	Per applicable GCP
4054	Per applicable SCP	Per applicable GCP
4055	Per applicable SCP	Per applicable GCP
4056	Per applicable SCP	Per applicable GCP
6100	Twelve (12) weeks	Per Conversion Training Plan
6200	Per applicable SCP	Per Initial Conversion GCP
6300	Per applicable SCP	Per applicable GCP
7100	Per applicable Tool/AID, System	Main DOS and various sites per GCPs and SCPs

Figure FF-3-3 (SHEET 4 OF 4)

PERFORMANCE/DELIVERY SCHEDULE

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SECTION G

CONTRACT ADMINISTRATION DATA

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SECTION G

CONTRACT ADMINISTRATION DATA

G.1 PROMPT PAYMENT ACT

The Prompt Payment Act (Public Law 97-177, May 21, 1982, 96 State. 85, 31 USC 1801) is incorporated herein by reference.

Notwithstanding the Order of Precedence clause (FAR 52.215-18, Subsection I.22 of the contract), if there is any inconsistency between the following provisions and any other provisions in the contract concerning invoices and payments, the following provisions prevail.

G.2 PAYMENT DUE DATE

a. Payments under this contract will be due on the 30th calendar day after the latter of:

1. The date of actual receipt of a proper invoice in the office designated to receive the invoice, or

2. The date the equipment/services are accepted by the Government.

b. For the Purpose of determining the due date for payment and for no other purpose, acceptance* will be deemed to occur on the 30th calendar day after the date of delivery of the equipment/services in accordance with the terms of the contract.

(*Note -- Equipment/service that are subject to the "Standard of Performance" provisions of this contract (Standard of Performance and Acceptance of Equipment, Subsection E.1 of this contract) will be accepted in accordance with those provisions.)

c. If the equipment/services are rejected for failure to conform to the technical requirements of the contract, or for damage in transit or otherwise, the provisions in paragraph (b) of this clause will apply to the new delivery of replacement equipment/services.

d. The date of the check issued in payment or the date of payment by wire transfer through the Treasury Financial Communications System shall be considered to be the date payment is made.

G.3 INTEREST ON OVERDUE PAYMENT (APRIL 1984)

a. The Prompt Payment Act, Public Law 97-177, May 21, 1982, (96 State 85, 31 U.S.C. 1801) is applicable to payments under this contract and requires the payment to Contractors of interest on overdue payments and improperly taken discounts .

b. Determinations of interest due will be made in accordance with the provisions of the Prompt Payment Act and Office of Management and Budget Circular A-125.

G.4 INVOICE REQUIREMENTS (APRIL 1984)

a. Invoices shall be submitted in an original and two (2) copies to the Government office designated in this contract or on the delivery order to receive invoices. To constitute a proper invoice, the invoice must include the following information and/or attached documentation:

1. Name of the business concern and invoice date.
2. Contract number, or other authorization for delivery of property or service.
3. Description, price, and quantity of property and services actually delivered or rendered.
4. Shipping and payment terms.
5. Name (where practicable), title, phone number, and complete mailing address of responsible official to whom payment is to be sent. The "remit to" address must correspond to the remittance address in the contract.
6. Other substantiating documentation or information as required by the contract.

b. To assist the Government in making timely payments, the Contractor is requested to furnish the following additional information either on the invoice or on an attachment to the invoice:

1. Date(s) that property was delivered or services rendered.
2. Serial Numbers of property delivered,
3. Address where property was delivered or services were rendered,

4. Credits (if applicable).
5. Copy of the Contracting Officer's written notification of acceptance following successful completion of the Standard performance period (see Standard of Performance and Acceptance, Subsection E.1 of this solicitation).
6. Contractor's complete remittance or check mailing address.
7. Delivery Order Number.

G.5 ADDITIONAL INVOICE AND PAYMENT PROVISION

G.5.1 Invoices for Full Month

The Contractor shall render invoices (3 copies) for basic monthly charges at the end of the month for which the charges accrue. (See General Provisions G.2, Payment Due Date; and G.4, Invoice Requirements.)

G.5.2 Invoices for Partial Month

Payments for rental and services of less that one month's duration shall be prorated at 1/30th of the basic monthly charge for each calendar day.

G.5.3 Credits

Any credits due the Government may be applied against the Contractor's invoices with appropriate information attached.

G.5.4 Invoices Covering Extra Use

In case of extra maintenance charges, the Contractor shall furnish the Government each month with a form which shall list each machine by type and serial number. The Government shall list the following information for each machine: number of hours of extra maintenance; extra maintenance rate applied; and total extra maintenance charges for the month. The Government shall return this form to the Contractor as its authorization to bill.

G.5.5 Purchase Invoice and Payment Provision

The Contractor shall be paid, upon submission of proper invoice after completion of a successful performance period. (See Subsection E.1, Standard of Performance and Acceptance of Equipment; G.2, Payment Due Date; and G.4, Invoice Requirements.) For purchase of installed rental equipment, the effective date of purchase is set forth in paragraph I.5.3.

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G.6 PRICING OF ADJUSTMENTS

When costs are a factor in any determination of contract price adjustment pursuant to the "Changes" clause or any other clauses of this contract, such costs shall be in accordance with the contract cost principles and procedures in Part 31 of the Federal Acquisition Regulation (48 CFR Part 31) in effect on the date of this contract.

G.7 METHOD OF PAYMENT

a. Payment under this contract will be made either by check or by wire transfer through the Treasury Financial Communications System at the option of the Government.

b. The Contractor shall forward the following information in writing to the Contracting Officer not later than seven (7) days after receipt of notice of award.

  1. Full name (where practicable), title, phone number, and complete mailing address of responsible official(s) (i) to whom check payments are to be sent, and (ii) who may be contacted concerning the bank account information requested below.

  2. The following bank account information required to accomplish wire transfers:

    i. Name, address, and telegraphic abbreviation of the receiving financial institution.

    ii. Receiving financial institution's 9-digit American Bankers Association (ABA) identifying number for routing transfer of funds. (Provide this number only if the receiving financial institution has access to the Federal Reserve Communications System.)

    iii. Recipient's name and account number at the receiving financial institution to be credited with the funds.

    iv. If the receiving financial institution does not have access to the Federal Reserve Communication System, provide the name of the correspondent financial institution through which the receiving financial institution receives electronic funds transfer messages. If a correspondent financial institution is specified also provide:

A. Address and telegraphic abbreviation of the correspondent financial institution.

B. The correspondent financial institution's 9-digit ABA identifying number for routing transfer of funds.

c. Any changes to the information furnished under paragraph (b) of this clause shall be furnished to the Contracting Officer in writing at least 30 days before the effective date of the change. It is the Contractor's responsibility to furnish these changes 30 days before submitting invoices to avoid invoices being returned as improper.

d. The document furnishing the information required in paragraphs (b) and (c) must be dated and contain the signature, title, and telephone number of the Contractor official authorized to provide it, as well as the Contractor's name and contract number. (OMB Control Number 3090-0141).

G.8 CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR) (APR 1984)

The Contracting Officer may appoint an individual to act as the COTR for technical liaison, inspection, testing, and such other purposes as are deemed necessary for this contract. The COTR shall be appointed in writing by the Contracting Officer.

The COTR will be designated the authority to act for the Contracting Officer in matters concerning technical clarification, inspection and, after concurrence by the Contracting Officer, acceptance of Contractor's performance under the contract, including preparation of receiving reports, and the authorization of progress payments when appropriate. The COTR will coordinate all work with the Contractor and review Contractor's performance at significant stages of its development.

In no instance, however, shall the COTR be authorized to alter, modify the specifications or the contract terms and conditions or waive the Government's requirement, price, delivery, or other terms and conditions. Such changes must be authorized, in writing, by the Contracting Officer.

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SECTION H

SPECIAL CONTRACT REQUIREMENTS

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SECTION H

SPECIAL CONTRACT REQUIREMENTS

H.1 FIRMR 201-32.205-1 (APR 1984) WARRANTY EXCLUSION AND LIMITATION OF DAMAGES

Except as expressly set forth in writing in this agreement, or except as provided in the clause entitled, "Commitments, Warranties and Representations," if applicable, and except for the implied warranty of merchantability, there are no warranties expressed or implied. In no event will the Contractor be liable to the Government for consequential damages as defined in the Uniform Commercial Code, Section 2-715, in effect in the Direct of Columbia as of January 1, 1973; i.e.,

Consequential damages resulting from the seller's breach include:

a. Any loss resulting from general or particular requirements and needs of which the seller at the time of contracting had reason to know and which could not reasonably be prevented by cover or otherwise; and

b. Injury to person or property proximately resulting from any breach of warranty.

H.2 REPLACEMENT PARTS AVAILABILITY

The Contractor guarantees that replacement parts for each machine in this contract will be available for the systems (items) life stated in I.2. The Contractor shall notify the Government 180 calendar days before the end of the systems (items) life as to the continuing availability of parts subsequent to this period. If parts will not be available from the Contractor, then the Government may require the Contractor to furnish data that is available to assist the Government to obtain such parts from another source.

H.3 ENGINEERING CHANGES

a. After contract award, the Government may solicit, and the Contractor is encouraged to propose independently, engineering changes to the equipment, software specifications, or other requirements of this contract. These changes may be proposed to save money, to improve performance, to save energy, or to satisfy increased data processing requirements. If the proposed changes are acceptable to both parties, the Contractor shall submit a price change proposal to the Government for evaluation. Those proposed engineering changes that are acceptable to the Government will be processed as modifications to the contract.

b. This H.3. applies only to those proposed changes identified by the Contractor, as a proposal submitted pursuant to the provisions of this clause. As a minimum, the following information shall be submitted by the Contractor with each proposal:

1. A description of the difference between the existing contract requirement and the proposed change, and the comparative advantages and disadvantages of each;

2. Itemized requirements of the contract which must be changed if the proposal is adopted, and the proposed revision to the contract for each such change;

3. An estimate of the changes in performance and cost, if any, that will result from adoption of the proposal;

4. An evaluation of the effects the proposed change would have on collateral costs to the Government, such as Government-furnished property costs, costs of related items, and costs of maintenance and operation; and

5. A statement of the time by which the change order adopting the proposal must be issued so as to obtain the maximum benefits of the changes during the remainder of this contract. Also, any effect on the contract completion time or delivery schedule shall be identified.

c. Engineering change proposals submitted to the Contracting Officer shall be processed expeditiously. The Government shall not be liable for proposal preparation costs or any delay in acting upon any proposal submitted pursuant to this clause. The Contractor has the right to withdraw, in whole or in part, any engineering change proposal not accepted by the Government within the period specified in the engineering change proposal. The decision of the Contracting Officer as to the acceptance of any such proposal under this contract shall be final and shall not be subject to the "Disputes" clause of this contract.

d. The Contracting Officer may accept any engineering change proposal submitted pursuant to this clause by giving the Contractor written notice thereof. This written notice may be given by issuance of a modification to this contract. Unless and until a modification is executed to incorporate an engineering change proposal under this contract, the Contractor shall remain obligated to perform in accordance with the terms of the existing contract.

e. If an engineering change proposal submitted pursuant to this clause is accepted and applied to this contract, an equitable adjustment in the contract price and in any other affected provisions of this contract shall be made in accordance with this clause and other applicable clauses of this contract. When the cost of performance of this contract is increased or decreased as a result of the change, the equitable adjustment increasing or decreasing the contract price shall be in accordance with the "Changes" clause rather than under this clause, but the resulting contract modification shall state that it is made pursuant to this clause.

f. The Contractor is requested to identify specifically any information contained in the engineering change proposal which the Contractor considers confidential and/or proprietary and which the Contractor prefers not be disclosed to the public. The identification of information as confidential and/or proprietary is for information purposes only and shall not be binding on the Government to prevent disclosure of such information. The Contractor is advised that such information may be subject to release upon request pursuant to the Freedom of Information Act. (5 U.S.C. 552).

H.4 TIME METERING OR RECORDING DEVICES (OPTIONAL)

Contractors must include an automated system for recording operational use time unless use time is not a factor in determining monthly rental and/or maintenance charges. Use time so recorded must be acceptable as a basis for rental computation. Appropriate instructions and procedures (forms, clerical operations, resetting, etc.) must be provided by the Contractor.

H.5 USE OF HARDWARE AND/OR SOFTWARE MONITORS

The Contractor shall permit inclusion or attachment of such devices as the Government may choose to employ for the purpose of examining or measuring the activity within the computer system. Devices such as hardware monitors, which may require physical connection to the computer system, and devices such as software monitors, which may require portions of the computer system's control software to be displaced, are specifically included in this category. The Contractor may not prohibit the installation of such devices unless the particular device will cause significant or permanent damage to the computer system. The Contractor shall assist the Government in identifying and locating device connections when requested by the Government if the Contractor provides such service to other customers. Cost for this service, if any, is stated in Section B of this contract. Note - Hardware and software monitors clearly fall within the purview of the Alterations and Attachments clause, F.4. Therefore, the Contractor is relieved of liability of damages and maintenance credit provisions as set forth in F.4.

H.6 GOVERNMENT RIGHTS IN COMPUTER SOFTWARE

a. The Government, for itself and such others as it deems appropriate, will have unlimited rights in computer software specifically developed or generated (i.e., designed and developed) under this contract, provided such software is identified as a separate line item and unlimited rights are specified. Unlimited rights under this contract are rights to use, duplicate, or disclose software data, in whole or in part, in any manner and for any purpose whatsoever.

b. For software not specifically developed or generated under this contract, the Contractor may restrict the Government's rights therein. The fact that the total complement of software involved may incorporate some elements of software to which the Government has unlimited rights shall not affect the Contractor's authority to impose restrictions on the Government's rights. As a minimum, however, the Government will have the right to:

1. Have unlimited use of such software on computer system(s) for which or with which it is acquired.

2. Use such software with a backup system if the system for which or with which it was acquired is inoperative because of a malfunction, an emergency, change(s) in engineering performance, or change(s) in computer features or models.

3. Use such software with the computer at any Government installation to which the computer may be transferred by the Government.

4. Copy computer software for safekeeping (archives) or backup purposes.

5. Modify such software or combine it with other programs or material. All modifications by the Government will be treated as stated in (a) above. However, any such modification shall not change or limit the Contractor's rights with respect to such software in its original, modified, or combined form. If software defects result from program portions which have been added or modified by the Government, then the Government, not the contractor, is responsible for any resulting adverse effects. However, if contractor provided portions are defective, then the contractor is responsible for providing the software support and/or operating software malfunction credits as specified elsewhere in the contract.

6. Retain unlimited rights to the part that it owns.

c. Nothing contained herein shall be construed to restrict or limit any right which the Government possesses or may acquire from other sources in the above software or software data or its use.

d. With respect to the provisions in Subsection C.4, Software Requirements, wherein the Contractor must provide ample and adequate documentation and tools to the DOS or a mutually agreeable third party, any non-disclosure agreements that may be required must be approved by the Contracting Officer.

H.7 SITE PREPARATION

H.7.1 The Government shall prepare the site at its own expense and in accordance with the equipment environmental specifications furnished by the Contractor in the proposal.

H.7.2 Any alterations or modifications in site preparation which are directly attributed to incomplete or erroneous equipment environmental specifications provided by the Contractor which would involve additional expenses to the Government shall be made at the expense of the Contractor, provided that the Contractor or the Government has the right to perform, or to have performed by local personnel, the alterations or modifications, or acceptable alternatives to them.

H.7.3 Any such site alterations or modifications as specified in paragraph H.7.3 above which cause a delay in the installation date will also result in liquidated damages for equipment as specified under paragraph F.1.

H.8 TECHNOLOGICAL IMPROVEMENTS

After contract award, the Contractor is encouraged to offer to the Government newly announced hardware and software which meets or exceeds the functional and performance requirements detailed in Section C of this contract in addition to, or in lieu of, similar hardware and software proposed by the Contractor in response to this solicitation. Any such technological improvements in hardware and/or software offered by the Contractor, regardless of model number or revision level, must be compatible with that hardware and software proposed under this contract. This includes, but is not limited to, operating system, utilities, applications software and program development tools. The Government may accept such newly announced hardware and/or software provided that it may be substituted for or appended to like hardware and/or software provided under this contract at no additional cost or at the same discount as has been offered for all hardware and software in this contract. The cost of such hardware and software shall not be higher than that of the Contractor's most favored customer.

H.9 FAR 28.307-2 (APR 1984) LIABILITY

a. Workers' compensation and employer's liability. Contractors are required to comply with applicable Federal and State workers' compensation and occupational disease statutes. If occupational diseases are not compensable under those statutes, they shall be covered under the employer's lability section of the insurance policy, except when contract operations are so commingled with a contractor's commercial operations that it would not be practical to require this coverage. Employer's lability coverage of at least $100,000 shall be required, except in States with exclusive or monopolistic funds that do not permit workers' compensation to be written by private carriers. (See 28.305(c) for treatment of contracts subject to the Defense Base Act.)

b. General liability. (1) The contracting officer shall require bodily injury liability insurance coverage written on the comprehensive form of policy of at least $500,000 per occurrence.

   2. Property damage liability insurance shall be required only in special circumstances as determined by the agency.

c. Automobile liability. The contracting officer shall require automobile liability insurance written on the comprehensive form of policy. The policy shall provide for bodily injury and property damage liability covering the operation of all automobiles used in connection with performing the contract. Policies covering automobiles operated in the United States shall provide coverage of at least $200,000 per person and $500,000 per occurrence for bodily injury and $20,000 per occurrence for property damage. The amount of liability coverage on other policies shall be commensurate with any legal requirements of the locality and sufficient to meet normal and customary claims.

d. Aircraft public and passenger liability. When aircraft are used in connection with performing the contract, the contracting officer shall require aircraft public and passenger liability insurance. Coverage shall be at least $200,000 per person and $500,000 per occurrence for bodily injury, other than passenger liability, and $200,000 per occurrence for property damage. Coverage for passenger liability bodily injury shall be at least $200,000 multiplied by the number of seats or passengers, whichever is greater.

e. Vessel liability. When contract performance involves use of vessels, the contracting officer shall require, as determined by the agency, vessel collision liability and protection and indemnity liability insurance.

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PART II

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SECTION I

CONTRACT CLAUSES

I.1 RISK OF LOSS OR DAMAGE

I.1.1 Risk of Loss or Damage - Lease

The Government is relieved of all risks of loss or damage to the equipment during periods of transportation and installation, and during the entire time the equipment is in the possession of the Government, except for

i. loss or damage caused by nuclear reaction, nuclear radiation, radioactive contamination, war, insurrection, civil strife, rebellion, weapons of war; or

ii. negligence on the part of the Government or its agents, provided, however, that the Government shall be relieved of the liability for such risks of loss or damage due to negligence if any commercial customer of the Contractor is relieved of such liability under like circumstances.

If the Government is liable for loss or damage of a machine, the Contractor shall have the option to restore the machine to its previous condition, in which event the Government shall pay the Contractor to perform such restoration at the Contractor's then-current prices, terms, and conditions. If the Contractor elects not to restore the machine, the Government may, at its own expense, restore the machine to its previous condition. If, however, the machine is lost or damaged beyond repair, the Government shall pay to the Contractor the same price for the machine as the Government would have paid had it purchased the machine on the day prior to the loss or damage under the provisions of this contract. This clause shall govern risk of loss or damage, notwithstanding any other provisions of this contract relating to title, payment, or ownership.

I.1.2 Risk of Loss or Damage - Purchase

The Government is relieved of all risks of loss or damage to the equipment, up to and including the day prior to the first day of a successful performance period, except for

i. loss or damage caused by nuclear reaction, nuclear radiation, radioactive contamination, war, insurrection, civil strife, rebellion, weapons of war; or

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ii. negligence on the part of the Government or its agents, provided, however, that the Government shall be relieved of the liability for such risks or damage due to negligence if any commercial customer of the Contractor is relieved of such liability under like circumstances.

If the Government is liable for loss or damage of a machine, the Contractor shall have the option to restore the machine to its previous condition, in which event the Government shall pay the Contractor to perform such restoration at the Contractor's then-current prices, terms, and conditions. If the Contractor elects not to restore the machine, the Government may, at its own expense, restore the machine to its previous condition. If, however, the machine is lost or damaged beyond repair, the Government shall pay the Contractor the same price for the machine as the Government would have paid if it had purchased the machine on the day prior to the loss or damage under the provisions of this contract. This clause shall govern risk of loss or damage, notwithstanding any other provisions of this contract relating to title, payment, or ownership.

I.2 TERM OF CONTRACT

The term of this contract for all hardware, software and support services is sixty (60) months from date of award plus three (3) option renewal years, to be renewed one year at a time. The option years are limited to procurement of support related services to include maintenance, software licenses, training, spare parts, contractor personnel support, documentation and conversion.

I.3 CONTRACT OPTIONS TO EXTEND TERM OF CONTRACT

I.3.1 Option to Extend the Term of the Contract

This contract is renewable solely for the purchase of maintenance, software licenses, training, contract personnel support, spare parts and conversion at the prices stated in the Schedule, subject to the price adjustment clauses in this section, at the option of the Government, by the Contracting Officer giving written notice of renewal to the Contractor by the first day of each option year. If the Government exercises this option for renewal, the contract as renewed shall be deemed to include this option provision. However, the total duration of this contract, including the exercise of any options under this clause, shall not exceed ninety-six (96) months.

I.4 ADDITIONAL TERMS AND CONDITIONS APPLICABLE TO RENTAL OF ADPE

I.4.1 Discontinuance of Rental

I.4.1.1 Discontinuance of Rental Without Repricing

When discontinuing rental and use pursuant to this clause and upon receipt by the Contractor of written notice from the Government, the Government may discontinue rental and use of a system 30 calendar days or a machine 30 calendar days thereafter. The Government may discontinue rental and use of equipment on shorter notice than specified above when the Contractor agrees. However, the Government may extend the original discontinuance date upon written notice to the Contractor, provided such notice is furnished at least 15 calendar days prior to the original discontinuance date.

I.4.2 Title (under Rental)

Title to equipment, accessories, and devices rented under this contract shall remain with the Contractor. All devices and accessories furnished by the Contractor, except those purchased by the Government, shall accompany the equipment when returned to the Contractor.

I.4.3 Purchase Option

The Government may, at any time following acceptance of the equipment, purchase any or all ADP equipment rented in accordance with the following terms: Equipment rented under this contract may be purchased at the purchase price for the installed equipment at the time such equipment was initially ordered for rental or at the time of purchase, whichever is lesser. The Government will be allowed cumulative purchase option credits, as indicated by the Contractor in Section B of this contract, beginning with the first day of the successful performance period. The equipment to be purchased must have been on continuous rental, but suspension of rental during the movement of equipment from one site to another site shall be interpreted as "continuous rental." The equipment converted to purchase shall be discontinued from rental on the day immediately preceding the effective date of purchase. If the purchase option is exercised during the first 90 calendar days beginning with the first day of the successful performance period, the warranty specified in I.5.1.1 shall apply for the remaining days covered by the 90 calendar day warranty.

I.5 ADDITIONAL TERMS AND CONDITIONS APPLICABLE TO PURCHASE OF ADPE

I.5.1 Warranty

The following warranty is in addition to Subsection I.21 and shall not limit the right of the Government under Subsection I.21.

I.5.1.1 Warranty Period

The Contractor shall furnish, at no cost to the Government, all maintenance (labor and parts), as specified in this contract, both during and outside the Principal Period of Maintenance, for a period of ninety (90) calendar days beginning on the first day of the successful performance period. The Government will pay on-call labor rates as specified in this contract for maintenance service outside the Principal Period of Maintenance when the Government requests such service in writing.

I.5.1.2 Replaced Parts

All replaced parts during the warranty period shall become the property of the Contractor.

I.5.1.3 Cost of Movement

Prior to the expiration of the warranty period, whenever equipment is shipped for mechanical replacement purposes, the Contractor shall bear all costs, including but not limited to, costs of packing, transportation, rigging, drayage, and insurance.

I.5.1.4 Fault of Government

The warranty shall not apply to maintenance required due to the fault or negligence of the Government.

I.5.2 Title (under Purchase)

Title of each machine, including special features installed thereon, will pass to the Government on the first day of the successful performance period.

I.5.3 Purchase of Installed Rental Equipment

Installed rental equipment acquired under the provisions of paragraph I.4.3 may be purchased at any time. The purchase allowance shall be in accordance with paragraph I.4.3. All applicable provisions of paragraphs I.4 and I.5 shall apply. Provided that the Contractor clearly demonstrates that the equipment is in good operating condition, the effective date of purchase shall be either:

(a) The day following receipt by Contractor of a funded contract amendment or funded purchase order, or

(b) A later date if so specified on the order, or

(c) An earlier date when mutually agreed to, and a confirming order is received within thirty (30) calendar days after the effective date of purchase.

I.6 ADVERTISING OF AWARD

The Contractor agrees not to refer to awards in commercial advertising in such a manner as to state or imply that the product or service provided is endorsed or preferred by the Federal Government or is considered by the Government to be superior to other products or services.

I.7 INTERPRETATION OF CONTRACT REQUIREMENTS

No interpretation of any provision of this contract, including applicable specifications, shall be binding on the Government unless furnished or agreed to in writing by the Contracting Officer or his designated representative.

I.8 SMALL BUSINESS SIZE STANDARDS

The Contracting Officer has determined that the material described herein is classified under the Standard Classification Manual as Number 3573 and a concern having no more than 1,000 employees is classified as a small business concern.

I.9 PATENT INDEMNITY

If the amount of this contract for supplies or services is in excess of $10,000, the Contractor shall indemnify the Government and its officers, agents, and employees against liability, including costs, for infringement of any United States letters patent (except letters patent issued upon an application which is now or may hereafter be kept secret or otherwise withheld from issue by order of the Government) arising out of the performance under this contract, out of the use or disposal by or for the account of the Government of such supplies or services. The foregoing indemnity shall not apply unless the Contractor shall have been informed as soon as practicable by the Government of the suit or action alleging such infringement, and shall have been given such opportunity as is afforded by applicable laws, rules, or regulations to participate in the defense thereof; and further, such indemnity shall not apply if: (a) the infringement results from compliance with specific written instructions of the Contracting Officer directing a change in the

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supplies to be delivered or services to be performed, or in the materials or equipment to be used, or directing a manner of performance of the contract not normally used by the Contractor; or (b) the infringement results from the addition to, or change in the supplies furnished, or services performed, which addition or change was made subsequent to delivery or performance by the Contractor; or (c) the claim infringement is settled without the Contractor, unless required by final decree of a court of competent jurisdiction.

I.10 WAIVER OF DELIVERY SCHEDULE

None of the following shall be regarded as an extension, waiver, or abandonment of the delivery schedule or a waiver of the Government's right to terminate for default: (i) Delay by the Government in terminating for default; (ii) Acceptance of delinquent deliveries; and (iii) Acceptance or approval of samples submitted either after default in delivery or in sufficient time for the contractor to meet the delivery schedule.

Any assistance rendered to the contractor on this contract or acceptance by the Government of delinquent goods or services hereunder will be solely for the purpose of mitigating damages and is not to be construed as an intention on the part of the Government to condone any delinquency, or as a waiver of any rights the Government may have under subject contract.

I.11 FAR 52.220-1 PREFERENCE FOR LABOR SURPLUS AREA CONCERNS (APR 1984)

a. This acquisition is not a set aside for labor surplus area (LSA) concerns. However, the offeror's status as such a concern may affect (1) entitlement to award in case of tie offers or (2) offer evaluation in accordance with the Buy American Act clause of this solicitation. In order to determine whether the offeror is entitled to a preference under (1) or (2) above, the offeror must identify, below, the LSA in which the costs to be incurred on account of manufacturing or production (by the offeror or the first-tier subcontractors) amount to more than 50 percent of the contract price.

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b. Failure to identify the locations as specified above will preclude consideration of the offeror as an LSA concern. If the offeror is awarded a contract as an LSA concern and would not have otherwise qualified for award, the offeror shall perform the contract or cause the contract to be performed in accordance with the obligations of an LSA concern.

(End of clause)
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I.12 FAR 52.216-18 ORDERING (APR 1984)

a. Any supplies and services to be furnished under this contract shall be ordered by issuance of delivery orders by the individuals or activities designated in the Schedule. Such orders may be issued from Date of Award through Date of Termination.

b. All delivery orders are subject to the terms and conditions of this contract. In the event of conflict between a delivery order and this contract, the contract shall control.

c. If mailed, a delivery order is considered "issued" when the Government deposits the order in the mail. Orders may be issued orally or by written telecommunications only if authorized in the Schedule.

(End of Clause)

I.13 FAR 52.216-19 DELIVERY-ORDER LIMITATIONS (APR 1984)

a. Minimum order. When the Government requires supplies or services covered by this contract in an amount of less than $1.00, the Government is not obligated to purchase, nor is the Contractor obligated to furnish, those supplies or services under this contract.

b. Maximum order. The Contractor is not obligated to honor -

1. Any order for a single item in excess of $10,000,000;

2. Any order for a combination of items in excess of $20,000,000; or

3. A series of orders from the same ordering office within 30 days that together call for quantities exceeding the limitation in subparagraph 1 or 2 above.

c. If this is a requirements contract (i.e., includes the Requirements clause at subsection 52.216-21 of the Federal Acquisition Regulation (FAR)), the Government is not required to order a part of any one requirement from the Contract if that requirement exceeds the maximum-order limitations in paragraph b above.

d. Notwithstanding paragraphs b and c above, the Contractor shall honor any order exceeding the maximum order limitations in paragraph b, unless that order (or orders) is returned to the ordering office within 15 days after issuance, with written notice stating the Contractor's intent not to ship the item (or items) called for and the reasons. Upon receiving this notice, the Government may acquire the supplies or services from another source.

(End of clause)

I.14 ORDERING OFFICES

For purposes of the FAR 52.216.19 provisions, the following are the ordering offices for this contract:

a. Department of State

b. U.S. Agency of International Development (AID)

c. U.S. Information Agency

d. U.S. Department of Agriculture/Foreign Agricultural Service (FAS)

e. U.S. Department of Commerce/Foreign Commerce Service

f. Peace Corps

I-15 FAR 52.216-22 INDEFINITE QUANTITY (APR 1984)

(a) This is an indefinite-quantity contract for the supplies or services specified, and effective for the period stated, in the Schedule. The quantities of supplies and services specified in the Schedule are estimates only and are not purchased by this contract.

(b) Delivery of performance shall be made only as authorized by orders issued in accordance with the Ordering clause. The Contractor shall furnish to the Government when and if ordered, the supplies or services specified in the Schedule up to and including the quantity designated in the Schedule as the "maximum." The Government shall order at least the quantity of supplies or services designated in the Schedule as the "minimum."

(c) Except for any limitations on quantities in the Delivery-Order Limitations clause or in the Schedule, there is no limit on the number of orders that may be issued. The Government may issue orders requiring delivery to multiple destinations or performance at multiple locations.

(d) Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after 90 days following contract expiration.

I.16 MINIMUM AND MAXIMUM QUANTITIES

Subject to the availability of fiscal year funds, the Government guarantees to purchase under the base term of this contract the following minimum amounts of supplies and services:

Contract Year 1	$8,000,000.00
Contract Year 2	$8,000,000.00
Contract Year 3	$8,000,000.00
Contract Year 4	$8,000,000.00
Contract Year 5	$8,000,000.00

The maximum amount of supplies and services the Government shall purchase under the base term of this contract shall be $400,000,000.00.

I.17 CANCELLATION CEILINGS

In reference to FAR 52.217-2, the following Schedule provides the cancellation ceilings:

Contract Year	Ceiling
1	$100,000
2	$80,000
3	$60,000
4	$40,000
5	$20,000

I.18 FAR 52.216-2 ECONOMIC PRICE ADJUSTMENT - STANDARD SUPPLIES (APR 1984)

(a) The Contractor warrants that the unit price stated in the Schedule for non-TEMPEST systems and equipment, spare parts, software, manuals and documentation are not in excess of the Contractor's applicable established price in effect on the contract date for like quantities of the same item. The term "unit price" excludes any part of the price directly resulting from requirements for preservation, packaging beyond standard commercial practice. The term "established price" means a price that (1) is an established catalog or market price for a commercial item sold in substantial quantities to the general public, (2) meets the criteria of subsection 15.804-3 of the Federal Acquisition Regulation (FAR), and (3) is the net price after applying any standard trade discounts offered by the Contractor.

(b) The Contractor shall promptly notify the Contracting officer of the amount and effective date of each decrease in any applicable established price. Each corresponding contract unit price shall be decreased by the same percentage that the established price is decreased. The decrease shall apply to those items delivered on and after the effective date of the decrease in the Contractor's established price, and this contract shall be modified accordingly. The Contractor shall certify (1) on each invoice that each unit price stated in it reflects all decreases required by this clause or (2) on the final invoice that all required price decreases have been applied as required by this clause.

(c) If the Contractor's applicable established price is increased after the contract date, the corresponding contract unit price shall be increased, upon the Contractor's written request to the Contracting Officer, by the same percentage that the established price is increased, and the contract shall be modified accordingly, subject to the following limitations:

(1) The aggregate of the increases in any contract unit price under this clause shall not exceed 10 percent of the original contract unit price.

(2) The increased contract unit price shall be effective on the next October 1, provided that the Contracting Officer shall have received the Contractor's written request at least sixty (60) days prior to the October 1 effective date beginning with October 1, 1988, following system acceptance.

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(3) The increased contract unit price shall not apply to quantities scheduled under the contract for delivery before the effective date of the increased contract unit price, unless failure to deliver before that date results from causes beyond the control and without the fault or negligence of the Contractor, within the meaning of the Default clause.

(4) No modification increasing a contract unit price shall be executed under this paragraph (c) until the Contracting Officer verifies the increase in the applicable established price.

(5) Within 30 days after receipt of the Contractor's written request, the Contracting Officer may cancel, without liability to either party, any undelivered portion of the contract items affected by the requested increase.

(d) During the time allowed for the cancellation provided for in subparagraph (c)(5) above, and thereafter if there is no cancellation, the Contractor shall continue deliveries according to the contract delivery schedule, and the Government shall pay for such deliveries at the contract unit price, increased to the extent provided by paragraph (c) above.

(End of Clause)

I.19 FAR 52.216-3 ECONOMIC PRICE ADJUSTMENT - SEMISTANDARD SUPPLIES (APR 1984)

(a) The Contract warrants that the TEMPEST systems and equipment in the Schedule are, except for modifications required by the contract specifications, supplies for which it has an established price. The term "established price" means a price that (1) is an established catalog or market price for a commercial item sold in substantial quantities to the general public, (2) meets the criteria of subsection 15.804-3 of the Federal Acquisition Regulation (FAR), and (3) is the net price after applying any standard trade discounts offered by the Contractor. The Contractor further warrants that, as of the date of this contract, any difference between the unit prices stated in the contract for these line items and the Contractor's established prices for like quantities of the nearest commercial equivalents are due to compliance with contract specifications and with any contract requirements for preservation, packaging, and packing beyond standard commercial practice.

(b) The Contractor shall promptly notify the Contracting Officer of the amount and effective date of each decrease in any applicable established price. Each corresponding contract unit price (exclusive of any part of the unit price that reflects modifications resulting from compliance with specifications or with requirements for preservation, packaging, and packing beyond standard commercial practice) shall be decreased by the same percentage that the established price is decreased. The decrease shall apply to those items delivered on and after the effective date of the decrease in the Contractor's established price, and this contract shall be modified accordingly. The Contractor shall certify (1) on each invoice that each unit price stated in it reflects all decreases required by this clause or (2) in the final invoice that all required price decreases have been applied as required by this clause.

(c) If the Contractor's applicable established price is increased after the contract date, the corresponding contract unit price (exclusive of any part of the unit price resulting from compliance with specifications or with requirements for preservation, packaging, and packing beyond standard commercial practice) shall be increased, upon the Contractor's written request to the Contracting Officer, by the same percentage that the established price is increased, and the contract shall be modified accordingly, subject to the following limitations:

(1) The aggregate of the increases in any contract unit price under this clause shall not exceed 10 percent of the original contract unit price.

(2) The increased contract unit price shall be effective on the next October 1, provided that the Contracting Officer shall have received the Contractor's written request at least sixty (60) days prior to the October 1 effective date beginning with October 1, 1988, following system acceptance.

(3) The increased contract unit price shall not apply to quantities scheduled under the contract for delivery before the effective date of the increased contract unit price, unless failure to deliver before that date results from causes beyond the control and without the fault or negligence of the Contractor, within the meaning of the Default clause.

(4) No modification increasing a contract unit price shall be executed under this paragraph (c) until the Contracting Officer verifies the increase in the applicable established price.

(5) Within 30 days after receipt of the Contractor's written request, the Contracting Officer may cancel, without liability to either party, any undelivered portion of the contract items affected by the requested increase.

(d) During the time allowed for the cancellation provided for in subparagraph (c)(5) above, and thereafter if there is no cancellation, the Contractor shall continue deliveries according to the contract delivery schedule, and the Government shall pay for such deliveries at the contract unit price, increased to the extent provided by paragraph (c) above.

(End of clause)

I.20 ECONOMIC PRICE ADJUSTMENT - SUPPORT SERVICES

Economic price adjustment will be allowed for personnel support, maintenance, and training.

I.20.1 Timing

The contractor may request annually that prices for personnel support, maintenance and training under this contract be adjusted in accordance with the procedures below beginning on October 1, 1988 following system acceptance.

All requests for price adjustment must be made by the contractor by June 1 of the preceding Government fiscal year in which the adjustment is to occur. Requests must indicate the new prices desired and be accompanied by the information described in the Procedures paragraph below. At a minimum the contractor must provide the calculations it has made to arrive at the proposed prices and the commercial price list and/or the GSA ADP Schedule upon which it is basing its request. If the Contracting Officer does not receive a request by June 1, the prices in effect on the last day of June shall remain in effect and the economic price adjustment shall be deemed to have been waived for the next fiscal year. The above restrictions notwithstanding, the maximum price for any service subject to economic adjustment shall not exceed the lower of the following:

a. The lowest price at which the contractor then offers this product or service to its commercial customers, or

b. The price the contractor has established for the product or service on its GSA ADP Schedule, if any.

If at any time the contractor's prices described in (a) and (b) above drop below the prices the contractor is charging the Government under this contract, the contractor shall provide the Contracting Officer with a copy of the appropriate price list. The Government will then begin paying the lower prices.

I.20.2 Procedure

Adjusted prices shall be based on the change in the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI), U.S. City Average all items, 1967 = 100, as published by the U.S. Bureau of Labor Statistics for the previous calendar year. However, in no case will an upward adjustment exceed 12% regardless of the amount of change in the CPI.

Adjustments may be made by multiplying certain specific prices by a factor derived by dividing the CPI in effect on the May 1 immediately prior to the October 1 adjustment date by the CPI in effect the previous May 1. This factor rounded to 2 decimal places, may be multiplied by the current unit prices to establish the new unit prices. If the CPI factor is greater than 1.12 then the factor 1.12 shall be used in all calculations.

a. Personnel Support - New prices for personnel support can be calculated by multiplying the current rate (as offered in column 3 or 4, whichever is applicable in Tables B-3 and B-3a) by the CPI change factor.

b. Maintenance - New prices for maintenance can be calculated by multiplying the current rate (as offered in column 3, monthly maintenance of Table B-1) by the CPI change factor.

c. Training - New prices for training can be calculated by multiplying the current rate (as offered in column 4, 5 or 6, whichever is applicable in Tables B-4 and B-4a) by the CPI change factor.

The prices derived by using steps a, b, and c, above, shall then be compared by the contractor with its lowest commercial prices and its ADP Schedule prices which will be in effect on October 1 of the year the adjustment is requested.

I.20.3 Conditions

In the event of revision or discontinuance of the CPI, the U.S. Bureau of Labor Statistics will be requested to provide additional comparable indices. The Contracting Officer will select the index most nearly approximating the revised or discontinued CPI, and this selection will become binding upon both parties to the contract.

No adjustment shall apply to services required prior to the effective date of the adjustment unless the contractor's delay is excusable in accordance with the Default Clause of this contract (Subsection I.12).

The Contractor will submit new Tables to the Department of State to reflect the new prices as the result of the Economic Price Adjustment (Subsection I.17).

I.21 FAR 52.246-18 WARRANTY OF SUPPLIES OF A COMPLEX NATURE (APR 1984)

(a) Definitions. "Acceptance," as used in this clause, means the act of an authorized representative of the Government by which the Government assumes for itself, or as an agent of another, ownership of existing and identified supplies, or approves specific services rendered, as partial or complete performance of the contract.

"Correction," as used in this clause, means the elimination of a defect.

"Supplies," as used in this clause, means the end items furnished by the Contractor and related services required under this contract. The word does not include "data."

(b) Contractor's obligations. (1) The Contractor warrants that for 90 days following acceptance all supplies furnished under this contract will be free from defects in material and workmanship and will conform with all requirements of this contract; provided, however, that with respect to Government-furnished property, the Contractor's warranty shall extend only to its proper installation, unless the Contractor performs some modification or other work on the property, in which case the Contractor's warranty shall extend to the modification or other work.

(2) Any supplies or parts thereof corrected or furnished in replacement shall be subject to the conditions of this clause to the same extent as supplies initially delivered. This warranty shall be equal in duration to that set forth in paragraph (b)(1) of this clause and shall run from the date of delivery of the corrected or replaced supplies.

(3) The Contractor shall not be obligated to correct or replace supplies if the facilities, tooling, drawings, or other equipment or supplies necessary to accomplish the correction or replacement have been made unavailable to the Contractor by action of the Government. In the event that correction or replacement has been directed, the Contractor shall promptly notify the Contracting Officer, in writing, of the nonavailability.

(4) The Contractor shall also prepare and furnish to the Government data and reports applicable to any correction required (including revision and updating of all affected data called for under this contract) at no increase in the contract price.

(5) When supplies are returned to the Contractor, the Contractor shall bear the transportation costs from the place of delivery specified in the contract (irrespective of the f.o.b. point or the point of acceptance) to the Contractor's plant and return.

(6) All implied warranties of merchantability and "fitness for a particular purpose" are excluded from any obligation contained in this contract.

(c) Remedies available to the Government. (1) In the event of a breach of the Contractor's warranty in paragraph (b)(1) of this clause, the Government may, at no increase in contract price --

(i) Require the Contractor, at the place of delivery specified in the contract (irrespective of the f.o.b. point or the point of acceptance) or at the Contractor's plant, to repair or replace, at the Contractor's election, defective or nonconforming supplies; or

(ii) Require the Contractor to furnish at the Contractor's plant the materials or parts and installation instructions required to successfully accomplish the correction.

(2) If the Contracting Officer does not require correction or replacement of defective or nonconforming supplies or the Contractor is not obligated to correct or replace under paragraph (b)(3) of this clause, the Government shall be entitled to an equitable reduction in the contract price.

(3) The Contracting Officer shall notify the Contractor in writing of any breach of the warranty in paragraph (b) of this clause within 30 days after discovery of the defect. The Contractor shall submit to the Contracting Officer a written recommendation within 30 days thereafter as to the corrective action required to remedy the breach. After the notice of breach, but not later than 30 days after receipt of the Contractor' recommendation for corrective action, the Contracting Officer may, in writing, direct correction or replacement as in paragraph (c)(1) of this clause, and the Contractor shall, notwithstanding any disagreement regarding the existence of a breach of warranty, comply with this direction. If it is later determined that the Contractor did not breach the warranty in paragraph (b)(1) of this clause, the contract price will be equitably adjusted.

(4) If supplies are corrected or replaced, the period for notification of a breach of the Contractor's warranty in paragraph (c)(3) of this clause shall be 60 days from the furnishing or return by the Contractor to the Government of the corrected or replaced supplies or parts thereof, or if correction or replacement is effected by the Contractor at Government or other activity, for 60 days thereafter.

(5) The rights and remedies of the Government provided in this clause are in addition to and do not limit any rights afforded to the Government by any other clause of the contract.

I.22 FAR 52.252-2 CONTRACT CLAUSES INCORPORATED BY REFERENCE (APR 1984)

This contract incorporates the following contract clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available.

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CONTRACT CLAUSES

52.202-1 DEFINITIONS (APR 1984)

52.203-1 OFFICIALS NOT TO BENEFIT (APR 1984)

52.203-3	GRATUITIES (APR 1984)
52.203-5	COVENANT AGAINST CONTINGENT FEES (APR 1984)
52.204-2	SECURITY REQUIREMENTS (APR 1984)
52.210-5	NEW MATERIAL (APR 1984)
52.215-1	EXAMINATION OF RECORDS BY THE COMPTROLLER GENERAL (APR 1984)
52.215-2	AUDIT-NEGOTIATION (APR 1984)
52.215-22	PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA (APR 1984)
52.215-23	PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA MODIFICATIONS (APR 1985)
52.215-24	SUBCONTRACTOR COST OR PRICING DATA (APR 1985)
52.215-25	SUBCONTRACTOR COST OR PRICING DATA MODIFICATIONS (APR 1985)
52.215-33	ORDER OF PRECEDENCE (JAN 86)
52.215-26	INTEGRITY OF UNIT PRICES (JUN 1985)
52.217-1	LIMITATION OF PRICE AND CONTRACTOR OBLIGATION (APR 1984)
52.217-2	CANCELLATION OF ITEMS (ALTERNATE I)(JUNE 1985)
52.219-13	UTILIZATION OF WOMEN-OWNED SMALL BUSINESS (APR 1984)
52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS AND SMALL DISADVANTAGED BUSINESS CONCERNS (JUNE 1985)
52.219-9	SMALL BUSINESS AND SMALL DISADVANTAGED BUSINESS SUBCONTRACTING PLAN (APR 1984)
52.220-3	UTILIZATION OF LABOR SURPLUS AREA CONCERNS (APR 1984)
52.220-4	LABOR SURPLUS AREA SUBCONTRACTING PROGRAM (APR 1984)
52.222-1	NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (APR 1984)
52.222-3	CONVICT LABOR (APR 1984)
52.222-20	WALSH-HEALEY PUBLIC CONTRACTS ACT (APR 1984)

52.222-26	EQUAL OPPORTUNITY (APR 1984)
52.222-28	EQUAL OPPORTUNITY PREAWARD CLEARANCE OF SUBCONTRACTS (APR 1984)
52.222-29	NOTIFICATION OF VISA DENIAL (APR 1984)
52.222-35	AFFIRMATIVE ACTION FOR SPECIAL DISABLED AND VIETNAM ERA VETERANS (APR 1984)
52.222-36	AFFIRMATIVE ACTION FOR HANDICAPPED WORKERS (APR 1984)
52.223-2	CLEAN AIR AND WATER (APR 1984)
52.224-1	PRIVACY ACT NOTIFICATION (APR 1984)
52.224-2	PRIVACY ACT (APR 1984)
52.225-11	CERTAIN COMMUNIST AREAS (APR 1984)
52.227-1	AUTHORIZATION AND CONSENT (APR 1984)
52.227-2	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT (APR 1984)
52.228-4	WORKERS' COMPENSATION AND WAR-HAZARD INSURANCE OVERSEAS (APR 1984)
52.228-5	INSURANCE, WORK ON A GOVERNMENT INSTALLATION (APR 1984)
52.229-3	FEDERAL, STATE, AND LOCAL TAXES (APR 1984)
52.229-5	TAXES - CONTRACTS PERFORMED IN U.S. POSSESSIONS OR PUERTO RICO (APR 1984)
52.230-3	COST ACCOUNTING STANDARDS (APR 1984)
52.230-4	ADMINISTRATION OF COST ACCOUNTING STANDARDS (APR 1984)
52.232-8	DISCOUNTS FOR PROMPT PAYMENT (JULY 1985)
52.232-11	EXTRAS (APR 1984)
52.232-17	INTEREST (APR 1984)
52.232-23	ASSIGNMENT OF CLAIMS (JAN 1986)
52.233-1	DISPUTES (APR 1984)-ALT. I (APR 1984)

52.233-3	PROTEST AFTER AWARD (JUNE 1985)
52.243-1	CHANGES - FIXED-PRICE (APR 1984)
52.244-1	SUBCONTRACTS (FIXED-PRICE CONTRACTS) (JAN 1986)
52.247-63	PREFERENCE FOR U.S. - FLAG AIR CARRIERS (APR 1984)
52.249-2	TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED PRICE) (APR 1984)
52.249-8	DEFAULT (FIXED PRICE SUPPLY AND SERVICE) (APR 1984)

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PART III

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SECTION J

ATTACHMENT I

GLOSSARY

The definitions and explanations set forth in this Glossary are an integral part of the terms and conditions of this contract.

Access - The point at which a user gains entry to a system for the purpose of information transfer.

Active Terminal User - A user who has established a session with the operating system.

ADP - Automatic Data Processing.

Assembler - A program that facilitates the preparation of programs by taking symbolic representations of instructions or data and converting them into an input format for a linker or loader.

Asynchronous - Data transmission in which the start time of each character or block of characters is arbitrary, as contrasted with synchronous transmission where timing is a factor for both the sending and receiving device.

Alteration - Any change to a machine which deviates from the physical, mechanical, or electrical machine design (including microcode), whether or not additional devices or parts are required.

Attachment - The mechanical, electrical, or electronic interconnection of equipment to an existing machine or system by other than the original manufacturer of the machine or system.

Audit - To record significant state changes that occur in an operating system; to check for compliance with authorized procedures and regulations.

Audit Trail - The data recorded by the system that documents significant transactions processed.

Authentication - Checks in computer programs to ensure only those authorized to extract information or amend instructions are permitted to take such action.

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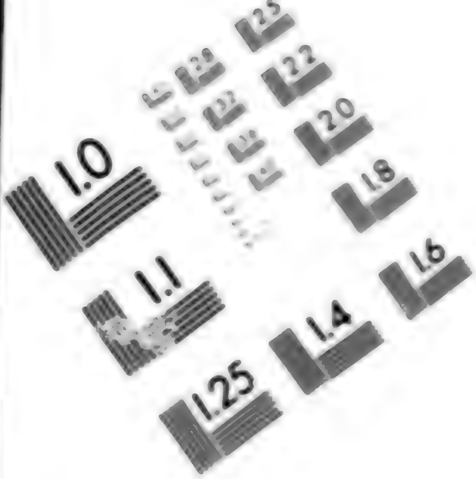

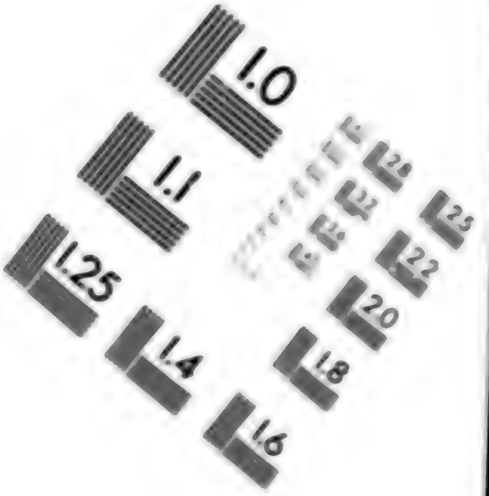

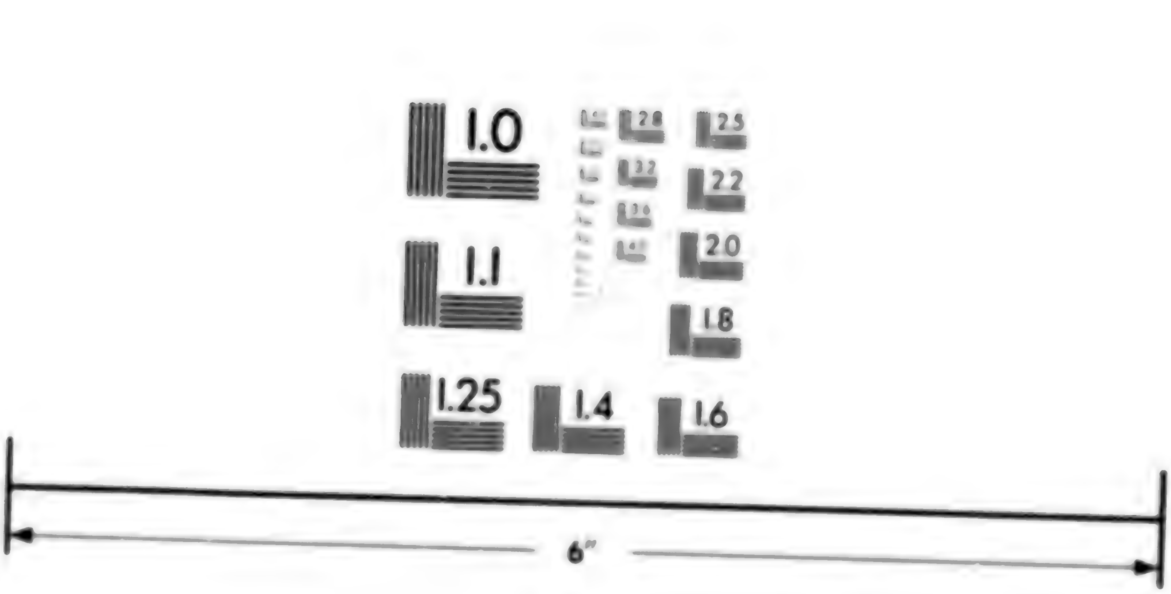

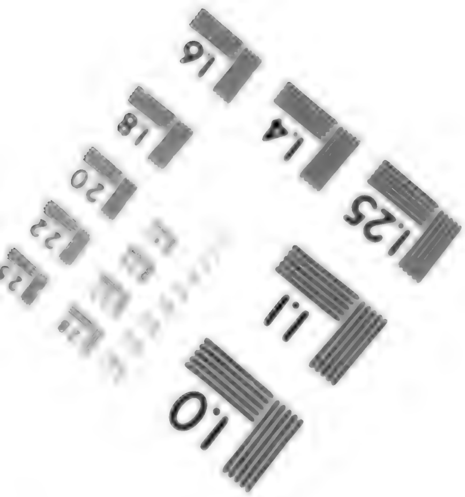

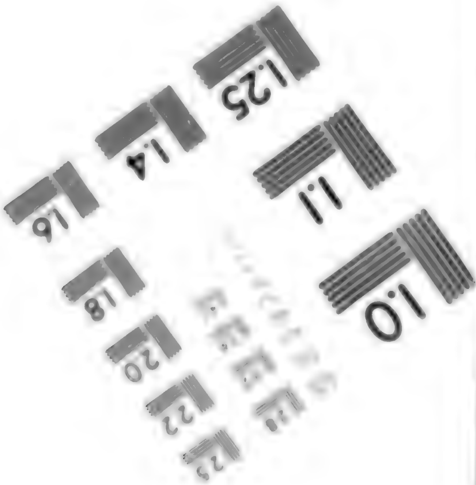

Automatic Data Processing (ADP) System - An assembly of computer hardware, firmware, and software configured for the purpose of classifying, sorting, calculating, computing, summarizing, transmitting and receiving, sorting, and retrieving data with a minimum of human intervention.

Background Processing - System processing (usually batch-type) which has a low-priority and is executed when higher-priority or real-time programs are not being executed.

Batch Processing - System processing where a number of similar inputs are grouped for processing and handled as a single unit, using the same routines.

Baud - A unit of signaling speed referring to the number of times the state of a line changes per second.

Benchmark - A set of standardized computer programs used to test the processing power and compliance with requirements of the different computers offered.

BPI - Bits Per Inch

Cold Start - A full reload and reinitialization of the operating system.

Compatible - Characteristics of a device, program, etc. are acceptable to another computer or device; components, peripheral equipment, or other devices can be used on more than one type of system with little or no adjustment; the same programs can be executed on more than one class of computer.

Concurrency of Operations - Two or more operations are performed simultaneously.

Contract Life (Term of Contract) - Five (5) years after award of contract for the hardware plus three (3) option years for support services.

Contractor - The Offeror whose proposal in response to this solicitation is accepted by the Government.

CONUS - Continental United States.

COTR - Contracting Officer's Technical Representative.

Course - As it pertains to training, a group of lessons which make up a logically functional whole, and usually defines a set of training experiences for which satisfactory completion entitles the student to a certificate of completion.

CPI - Characters per inch.

CPS - Characters per second.

Cursor - A special character or symbol on the VDT used by an interactive program that acts as a pointer or attention-focusing device and allows for operator/program communication and interaction.

Data Dictionary - A table of data field names, definitions, characteristics and inter-relationships.

Direct Access - The ability to retrieve data from any storage location in a constant amount of time. Each site on a direct access device is identified by its own unique address.

Discretionary Security Attributes - Those attributes of a record or resource that necessitate limited access; access is granted based on the "need-to-know" requirements of users.

DB - Data Base

DBMS - Data Base Management System.

Degraded Operation - A reduced service level provided by the computer system when one or more of its components are not functioning properly or are down due to routine maintenance.

DOS - Department of State; also used in the Request for Proposal to include the other participating agencies in the resultant contract.

Down Loading - The process of installing programs, files or data on a lower level system.

Downtime - The period of time when the system is inoperative due to Contractor-supplied hardware/software malfunction or Contractor-provided remedial services.

Drayage - The charge for hauling a load.

Emergency Assistance - Maintenance assistance to be provided by the Contractor when Government maintenance procedures fail to correct a system malfunction.

Equipment - An all-inclusive term which refers either to an individual machine or to the total complement of machines required to operate as an integrated group.

Equipment and/or Operating System Failure - A malfunction in the Contractor-supplied equipment and/or operating software (excluding all external factors), which prevents the accomplishment of a job.

Extended Maintenance Period Option - The Government may require the Contractor to provide maintenance service beyond the Principal Period of Maintenance at a fixed price for such a period, regardless of the number of calls required during such period.

Facility (software) - Capability to execute the necessary functional requirements.

Field Protect - Securing a field's contents and/or attributes against unauthorized modification.

File Access Security - Protecting a file and its component records against unauthorized access.

File Directory - An operating system maintained table of all files on a media and their identification, physical description and location.

FIPS PUB - Federal Information Processing Standards Publication.

Foreground Processing - Programs which have a high priority and are executed immediately, or when needed. Less critical or subsidiary programs are processed during the time when high-priority programs are not using the system.

Foreign Service National (FSN) - An employee of any foreign-service related mission/program/activity of any U.S. Government department or agency overseas.

Format (word processing) - The type, style, size, page, margins, and other printing characteristics of a document.

Global Search - A scan of an entire file for all occurrences of a specific character or string of characters.

HELP Facility - An easy-to-use facility that explains the syntax and operation of all system commands, either as part of the command language or as a separately provided program.

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Idle Time - When a computer is available for use, but is not being used.

Installation Date - The date by which the Contractor must have the ordered equipment on-site and ready for use by the Government.

Interactive - A processing mode where a user establishes and conducts a two-way dialogue with a computer system, and can study results and modify programs if necessary; considered to be synonymous to "on-line."

IPS - Inches per second

Letter-quality Printing - Print quality good enough for high quality business letters. Generally implies printing quality equal to that provided by standard office electric typewriters.

List Processing - The capability of a system to maintain files in the form of lists (for example, a customer name/address list). Special commands and operating modes are provided that allow the operator to easily update, sort, and merge the list with another document or file for automatic printout.

Live Test Demonstration - A test to be performed on the Offeror's proposed configurations using Government-provided programs and data to demonstrate the system's performance capability and functionality.

Log-On - The initial process where a user is identified so that appropriate accounting procedures are recorded by the system and the user can gain access to the system.

LPM - Lines per minute.

LTD - Live Test Demonstration.

Machine - An individual unit, including features installed thereon, of a data processing system (or subsystem) identified by a type and/or model number, such as a central processing unit, an additional memory module, a tape unit, etc.

Mass Storage - A device that has a very large storage capacity.

Mechanical Replacement - Exchanging one machine for another due to equipment failure.

Meg or M - Abbreviation for one million.

Memory Protection - Limitation of access to one or more storage locations by preventing reading or writing or both.

Menu - A series of options or facilities displayed on a VDT screen, from which a user can choose for execution.

MTBF - Mean time between failure.

MTTR - Mean time to repair.

OA - Office Automation. Includes, but is not limited to: word processing, calendar management, electronic mail, and other generic applications designed to enhance the productivity of the work environment.

Object - A passive entity that contains or receives information. Access to an object potentially implies access to the information it contains. Examples of objects are: records, blocks, pages, segments, files, directories, directory trees, and programs, as well as bits, bytes, words, fields, processors, video displays, keyboards, clocks, printers, network nodes, channels, devices, etc.

On-Call Maintenance - A request for remedial maintenance from a site during the PPM that is to be provided by the Contractor at a fixed monthly rate.

On-Line Processing - Processing performed by a user interacting with a computer program(s) via a VDT.

Operating System - Software that controls the execution of computer programs and shall include provisions for resource allocation, scheduling, input/output control, data management, and storage assignment.

Operational Use Time - The time during which equipment is in actual operation, exclusive of idle time, standby time or maintenance time due to Contractor-caused machine failure; not synonymous with "power-on" time.

PAD - Packet Assembler/Disassembler.

Peak Periods - Time during the day, month or year when maximum processing activity takes place.

Per-Call Maintenance - A request for remedial maintenance from a site that is not being provided on-call maintenance service. This type maintenance is to be provided by the Contractor at a predetermined charge for such calls.

Per-Call Maintenance After PPM - A request for remedial maintenance from a site that is using on-call maintenance; however, the request is for service after the PPM hours. This type maintenance is to be provided by the Contractor at a predetermined charge for such calls.

Peripheral - A device that operates in combination or conjunction with a central processing unit, but is not a physical part of it.

Power-On Time - The time during which equipment is "on" and available for use. This time includes idle time, standby time, and operational use time.

Preventive Maintenance - That maintenance performed on a routine, scheduled basis by the Contractor, designed to keep the equipment in proper operating condition.

Principal Period of Maintenance (PPM) - The prescribed nine (9) consecutive hours (between 7:00 a.m. and 7:00 p.m., local time) per day, including an official meal period not to exceed one hour per day, for the five-day work week observed at the site, excluding holidays.

Process - A program in execution.

Processor(s) - A device capable of performing systematic execution of operations upon data. For an exchange, a device which controls the functions of a stored program controlled exchange by reference to information stored in memory.

Programmer/System Analyst - A person who is technically qualified and experienced to prepare computer instructions and to also define computer systems problems and develop solutions for the problems.

QWERTY Keyboard - A standard typewriter keyboard, named for its first six keys.

Read-Access - Permission to read information. Flow of information is only from object to subject.

Read-Only Protection - The contents of a particular file may be accessed but cannot be modified, except by certain users.

Read/Write Protection - A method for controlling which users may access or modify a particular file.

Remedial Maintenance - That maintenance performed by the Contractor which results from Contractor-supplied equipment or operating software failure. It is performed as required and, therefore, is on an unscheduled basis.

Resource - Anything used or consumed while performing a function. The categories of resources are: time, information, objects, or processors (the ability to use information). Specific examples are: CPU time, terminal connect time, amount of directly addressable memory, disk space, number of I/O requests per minute, etc.

RFC - Request for Comment.

RFP - Request for Proposal.

Scrolling - Moving the screen contents vertically or horizontally.

Sensitive Information - Information that may not be classified but, due to the nature of its contents, requires enhanced protection while being processed or stored in the system (e.g., financial or medical records).

Spooling - Buffers output on auxiliary storage (e.g., a disk) before it is sent to an output device, usually a printer. In this way, processing and output do not have to occur at the same time, for increased efficiency of operations.

Support Services - Activities which consist of maintenance, software upgrades, Contractor assistance, training, spare parts, conversion, and manuals and other publications.

System Availability - When users can access the system during scheduled hours of operation; does not include scheduled downtime.

System Files - Program and data files that belong to or are a part of the operating system.

System Journal - A file maintained by the operating system for keeping accounting records, system messages, and transaction tracebacks.

System Life - Hardware for five (5) years after award of contract; maintenance, training, software licensing, Contractor personnel support, spare parts, documentation, and conversion for five (5) years after award date plus three (3) optional years, for a total of eight (8) years.

System Permutation (for Conversion) - A system or unique group of systems, for evaluation purposes, whose conversion requirements and associated costs are identical and therefore applicable to more than one site, e.g., in contract Year 1, the Department of State has eight co2 systems that require conversion; therefore, these eight systems plus other co2 systems from other agencies during Contract Year 1 may reference one co2 as a permutation.

System Under Test (SUT) - A configuration of predefined hardware, software and communications units with which a benchmark is being conducted.

Storage Object - An object (e.g., file, page, segment) which can potentially be created and deleted by subjects (e.g., users, system administrators, processes).

Subject - An active entity (generally an active terminal user or a process) that causes information to flow between objects.

Telecommunications - The electronic transmission of voice or data.

Text Editor - A computer program designed to perform such functions as the rearrangement, modification and deletion of text data, in accordance with prescribed rules.

Time-to-Repair - The time between when the Government notifies the Contractor of the need for maintenance and when the system is returned to its fully-functional operating condition.

Total Monthly Charges -

a. Rental. All monthly charges for the use of equipment and software not owned by the Government and for maintenance thereof.

b. Government-Owned. All monthly charges for the maintenance of equipment and software supplied under this contract.

Upgradable - The ability to add components to a device that enhance its performance or capacity, without changing the architecture of the device.

User - A person who utilizes a computer system to accomplish work. From an operating system perspective, a person who is given an identity (user-ID) and permitted to use system resources.

User-Friendly System - A system that is easy to use and operate. Some of the salient features of a user friendly system are:

a. Messages are presented in English language syntax.

b. The "average" user does not need to understand the system's architecture or mass storage structure in order to utilize the system.

c. The file system does not have rigid syntactical rules for the construction of file names.

d. The file name does not require the user to be aware of the file's physical location.

Verification - The process of comparing two levels of system specification for proper correspondence. This process may or may not be automated.

Video Display Terminal (visual display tube) (VDT) - A device used to display information for ease in manipulating or editing. The display is "soft", i.e., it does not result in any hard copy or printing.

Warm Start - When certain parameters in the operating system are reset without completely reinitializing the system environment. Paging areas and Program Status Words (PSWs) are retained so processing can continue.

Work Day - The official on-duty time observed at a site that consists of nine (9) consecutive hours, including an official meal period not to exceed one hour per day, excluding holidays.

Working Environment - The physical surroundings of a system user.

Workload - A composite of data used for system configuration estimates, including number of attached devices, interactive and batch processing usage estimates, and communications transmission estimates.

Write Access - Permission to alter the contents of a record or file.

WP - Word Processing. Includes the use of procedure language(s) specifically designed to accomplish automated document development and production.

SECTION J

ATTACHMENT II

DD FORM 254

DEPARTMENT OF DEFENSE
CONTRACT SECURITY CLASSIFICATION SPECIFICATION

1. THE REQUIREMENTS OF THE DOD INDUSTRIAL SECURITY MANUAL APPLY TO ALL SECURITY ASPECTS OF THIS EFFORT. THE FACILITY CLEARANCE REQUIRED IS: Top Secret

2. THIS SPECIFICATION IS FOR:		3. CONTRACT NUMBER OR OTHER IDENTIFICATION NUMBER (Prime contracts must be shown for all subcontracts)	4. DATE TO BE COMPLETED (Estimated)	5. THIS SPECIFICATION IS: (See "NOTE" below. If item b or c is "X'd", also enter date for item a)			
	a. PRIME CONTRACT	a. PRIME CONTRACT NUMBER	a.	X	a. ORIGINAL (Complete date in all cases)		DATE 8/1/86
	b. SUBCONTRACT (Use item 15 for subcontracting beyond second tier)	b. FIRST TIER SUBCONTRACT NO	b.		b. REVISED (supersedes all previous specifications)	REVISION NO	DATE
X	c. REQUEST FOR BID REQUEST FOR PROPOSAL OR REQ FOR QUOTATION	c. IDENTIFICATION NUMBER 0000-620006JS	c. DUE DATE 11/12/86		c. FINAL		DATE

6. Is this a follow-on contract? ☐ Yes ☒ No If YES, complete the following:

a. ____________________ PRECEDING CONTRACT NUMBER b. ____________________ DATE COMPLETED c. Accountability for classified material on preceding contract ☐ is ☐ is not, transferred to this follow-on contract.

7a. Name, Address & Zip Code of Prime Contractor *	b. FSC Number	c. Name, Address & Zip Code of Cognizant Security Office
8a. Name, Address & Zip Code of First Tier Subcontractor *	b. FSC Number	c. Name, Address & Zip Code of Cognizant Security Office
9a. Name, Address & Zip Code of Second Tier Subcontractor, or facility associated with IFB, RFP OR RFQ *	b. FSC Number	c. Name, Address & Zip Code of Cognizant Security Office

* When actual performance is at a location other than that specified, identify such other location in Item 15

10a. General identification of the Procurement for which this specification applies

Automated Data Processing Equipment & Support Services

b. DoDAAD Number of Procuring Activity identified in Item 16d

N/A

c. Are there additional security requirements established in accordance with paragraph 1-114 or 1-115, ISM? ☐ Yes ☒ No. If YES, identify the pertinent contractual documents in Item 15

d. Are any elements of this contract outside the inspection responsibility of the cognizant security office? ☐ Yes ☒ No. If YES, explain in Item 15 and identify specific areas or elements

11. ACCESS REQUIREMENTS	YES	NO	ACCESS REQUIREMENTS (Continued)	YES	NO
a. Access to Classified Information Only at other contractor/Government activities.		X	j. Access to SENSITIVE COMPARTMENTED INFORMATION.		X
b. Receipt of classified documents or other material for reference only (no generation)	X		k. Access to other Special Access Program information (Specify in Item 15).		X
c. Receipt and generation of classified documents or other material.		X	l. Access to U. S. classified information outside the U. S. Panama Canal Zone, Puerto Rico, U. S. Possessions and Trust Territories.	X	
d. Fabrication/Modification/Storage of classified hardware.		X	m. Defense Documentation Center or Defense Information Analysis Center Services may be requested.		X
e. Graphic arts services only.		X	n. Classified ADP processing will be involved.		X
f. Access to IPO information.		X	o. REMARKS:		
g. Access to RESTRICTED DATA.		X			
h. Access to classified COMSEC information.	X				
i. [illegible] XXXXXXXX	XXX	XXX			

12. Refer all questions pertaining to contract security classification specification to the official named below (NORMALLY, thru ACO (Item 16d); EMERGENCY, direct with written record of inquiry and response to ACO) (thru prime contractor for subcontracts).

a. The classification guidance contained in this specification and attachments referenced herein is complete and adequate.

b. Typed name, title and signature of program/project manager or other designated official

Leroy W. Donahue

Leroy W. Donahue, COTR
Information Systems Office (A/ISO/USS

c. Activity name, address, Zip Code, telephone number and office symbol

Department of State
Information Systems Office (ISO/USS)
Washington, D.C. 20520
(703) 647-8641

NOTE: Original Specification (Item 5a) is authority for contractors to mark classified information. Revised and Final Specifications (Items 5b and c) are authority for contractors to remark the regraded classified information. Such actions by contractors shall be taken in accordance with the provisions of the Industrial Security Manual.

DD FORM 1 JAN 78 254 EDITION OF 1 APR 71 IS OBSOLETE. ALSO REPLACES DD FORM 254c WHICH IS OBSOLETE

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13a. Information pertaining to classified contracts or projects, even though such information is considered unclassified, shall not be released for public dissemination except as provided by the Industrial Security Manual (paragraph 5o and Appendix IX).

b. Proposed public releases shall be submitted for approval prior to release ☐ Direct ☒ Through (Specify):

Contracting Officer - Department of State

to the Directorate For Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs) * for review in accordance with paragraph 5o of the Industrial Security Manual.

* In the case of non-DoD User Agencies, see footnote, paragraph 5o, Industrial Security Manual.

14. Security Classification Specifications for this solicitation/contract are identified below ("X" applicable box(es) and supply attachments as required). Any narrative or classification guide(s) furnished shall be annotated or have information appended to clearly and precisely identify each element of information which requires a classification. When a classification guide is utilized, that portion of the guide(s) pertaining to the specific contractual effort may be extracted and furnished the contractor. When a total guide(s) is utilized, each individual portion of the guide(s) which pertains to the contractual effort shall be clearly identified in Item 14b. The following information must be provided for each item of classified information identified in an extract or guide:
(I) Category of classification. (II) Date or event for declassification or review for declassification, and (III) The date or event for downgrading (if applicable).

The official named in Item 12b is responsible for furnishing the contractor copies of all guides and changes thereto that are made a part of this specification. Classified information may be attached or furnished under separate cover.

☐ a. A completed narrative is (1) ☐ attached, or (2) ☐ transmitted under separate cover and made a part of this specification.

☐ b. The following classification guide(s) is made a part of this specification and is (1) ☐ attached, or (2) ☐ transmitted under separate cover. (List guides under Item 15 or in an attachment by title, reference number and date).

☐ c. Service-type contract/subcontract. (Specify instructions in accordance with 13A/13B, as appropriate.).

☐ d. "X" only if this is a final specification and Item 6 is a "NO" answer. In response to the contractor's request dated ____________ retention of the identified classified material is authorized for a period of ____________

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☐ e. Annual review of this DD Form 254 is required. If "X'd", provide date such review is due: ____________

15. Remarks (Whenever possible, illustrate proper classification, declassification, and if applicable, downgrading instructions).

Visit Requests are to be sent to Department of State (DS/I/DIS), Washington, D.C. 20520 with an information copy to the COTR.

Documents to be sent to contractor will be no higher than secret.

See Attachment for Additional Remarks.

16a. Contract Security Classification Specifications for Subcontracts issuing from this contract will be approved by the Office named in Item 16e below, or by the prime contractor, as authorized. This Contract Security Classification Specification and attachments referenced herein are approved by the User Agency Contracting Officer or his Representative named in Item 16b below.

REQUIRED DISTRIBUTION:

☐ Prime Contractor (Item 7a)
  ☐ Cognizant Security Office (Item 7c)
☒ Administrative Contracting Office (Item 16e)
  ☐ Quality Assurance Representative
☐ Subcontractor (Item 8a)
  ☐ Cognizant Security Office (Item 8c)
☒ Program/Project Manager (Item 12b)
  ☐ U. S. Activity Responsible for Overseas Security Administration

ADDITIONAL DISTRIBUTION:

☒ DS/PRD/PRB
☐
☐

b. Typed name and title of approving official

Kenneth E. Lopez, Chief

c. Signature

Matthew H. for

d. Approving official's activity address and Zip Code

Department of State
DS/OSP/PRD
Washington, D.C. 20520

e. Name, address and Zip Code of Administrative Contracting Office

Department of State
OPR/STP
Room 528
Washington, D.C. 20520

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ATTACHMENT - BLOCK 15 to FORM DD 254

1. Access to TOP SECRET, and/or cryptographic information shall take place only at Department of State facilities. No TOP SECRET, or Crypto information is to be stored nor discussed at anytime at the contractor's facility.

2. Contractor facility storage is authorized only to the SECRET level provided all the requirements of the Industrial Security Manual are met.

3. All contractor/subcontractor personnel to be granted access to classified COMSEC information released or generated under this contract must be U.S. citizens granted a final Top Secret security clearance by the U.S. Government. Foreign nationals, immigrant aliens, interim secret cleared personnel or personnel holding a contractor granted CONFIDENTIAL clearance are not eligible for access to classified COMSEC information released or generated under this contract. Additionally, no individual shall be granted access unless the briefing requirements outlined in the COMSEC supplement to the ISM Section 3 Paragraph 16 are complied with. COMSEC briefings will be conducted by the Communications Security Division (OC/S) in the Department of State. Annual briefings will also be given by (OC/S) to all contractor/subcontractor personnel granted access to COMSEC material/information.

4. Any contact with representatives/individuals of the designated countries, as contained in the ISM, by contractor/subcontractor employees who have been cleared and assigned to this contract shall be reported through the facilities supervisor to the Department of State, Communications Security Division, regardless of where the contact occurs. Questionable or suspicious means any possible indication of hostile intelligence collection activity. Any travel to the above mentioned locations shall be in accordance with paragraph 5U of the Industrial Security Manual for safeguarding classified information.

5. Reproduction of classified communications security information generated as a result of this contract shall be held to the minimum necessary and shall be accomplished only as required for this contract. When possible, reproduction shall be performed by the government.

6. Any information developed regarding the TEMPEST characteristics or relating to the TEMPEST security features of the Department of State, technical control facility, and/or telecommunications network, shall be classified at least at the SECRET level and shall not be discussed on open telephones.

7. Any unclassified information generated as a result of this contract shall be controlled within the contractor facility and may not be released to the public without prior Department of State approval.

8. Any subcontract that may result from this contract shall require incorporation of the appropriate security of this Form DD 254 to protect classified information. Complete classification guidance in any subcontract shall be provided by the prime contractor in accordance with paragraph 60 of the ISM. All shall be submitted to the Department of State contracting officer for review and approval.

9. The contractor/subcontractor shall not divulge to any individual, organization or other U.S. government department or agency any information either classified or unclassified pertaining to the design or capabilities of the facility being recommended, produced or provided as government furnished equipment and under this and/or previous contracts without the prior approval of the Department of State.

10. Classified COMSEC information released or generated under this contract does not become the property of the contractor/subcontractor and can be withdrawn by the Department of State at any time. Upon expiration of the contract all classified documentation in the possession of the contractor relative to this contract shall be disposed of as directed by the contracting officer.

11. The contractor/subcontractor shall not release any classified information to any activity or individual of the contractor's organization not directly engaged in providing service under the contract. All classified communications security information that may be provided or generated by this contract shall be placed under SECRET accountability controls as provided for in paragraph 12 of the ISM.

12. All dissemination of unclassified communications security information shall be restricted to contractor and/or subcontractor and government personnel involved in this contract. Any proposed release into public domain of information pertaining to this contract shall be forwarded to the Department of State for review and approval. The term release includes, but is not limited to: newspaper articles, company newsletters, contract announcements, advertisements, brochures, photographs, motion picture films, technical papers, unclassified presentations at symposia, speeches, displays, etc., on any phase of this contract.

13. Reporting violations and possible compromises of information: The contractor shall make an immediate telephonic notification to the Department of State of any incident or violation of the requirements of those security provisions, the ISM or COMSEC supplement, irrespective of the contractors judgement as to whether or not a compromise or possible compromise has occurred. If secure voice capability is not available contractor shall make an unclassified telephone notification to the Deparment of State by calling 647-1223. If necessary, a follow-up routine report will be required.

14. Clarification and guidance for security requirements under this contract should be directed to the Department of State, Communications Security Division, area code 202-647-2581.

September 12, 1986

SECTION J

ATTACHMENT III

WORKLOAD PROFILES

1. INTRODUCTION

The benchmark has been designed and developed to characterize and mix the five workload categories into which all major DOS processing requirements have been identified. These are defined as follows:

- o Word Processing (WP)
- o Database Oriented (DB)
- o FAIS Oriented (FAIS)
- o Interactive (I/A)
- o Program Development (PD)

Batch processing was not established as an individual category, however, batch programs have been incorporated into the benchmark to represent the DOS requirements. In the current DOS environment, almost all processing is done on an interactive basis, and there wasn't sufficient workload data for the establishment of an individual batch workload category.

The task of identifying and defining the major transactions types within each workload category was completed by performing a comprehensive review of the major applications being used today. The benchmark categories and the transaction types which will be benchmarked within each category are presented in Figure III-1.

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WORKLOAD TRANSACTION MATRIX					
TRANSACTION	WP	DB	FAIS	I/A	PD
CREATE	X	X	X	X	X
MODIFY	X	X	X	X	X
DELETE	X	X	X	X	X
QUERY		X	X	X	
PRINT	X	X	X	X	X
COPY	X		X		
COMPILE					X
SEND / RCV			X		
INDEX / STORE			X		
IMAGING			X		
ELEC MAIL			X		
CLEARANCE			X		

Figure III-1

2. TRANSACTION DESCRIPTIONS BY WORKLOAD CATEGORY

A description of each transaction in each major workload category in the Benchmark follows:

2.1 Word Processing

Word processing has five (5) transaction types. These are:

a. Create: Create will cause the creation of a document of alpha characters one (1) page in length. All new documents will be 55 lines long with paragraph breaks.

b. Modify: Modify will cause an existing document to be modified either by deleting lines or characters, or by inserting lines or characters. All modifies will involve the use of a carriage return as part of the text and will change the number of textual lines on the page.

c. Delete: Delete will cause the deletion of a document from the document library.

d. Print: Print will cause the printing of a document. Documents to be printed will include the new documents, selected modified documents, and selected existing documents which may be deleted during the benchmark activity.

e. Copy: Copy will cause the reproduction of an existing document and re-file the same as a new document for later modifications.

2.2 Database

Database has five (5) transaction types. The five transaction types are:

a. Create: Create will cause the creation of a new record from the scenario data and create all the necessary pointers required to maintain the record within the Database.

b. Modify: Modify will cause an existing data record to be modified by changing the specified data as defined in the input scenario activity.

c. Delete: Delete will cause the deletion of a data record as defined in the scenario and remove any and all pointers as specified.

d. Query: Query will retrieve data as defined and prepare same for display to the terminal and/or file for later printing.

e. Print: Print will cause the printing of an existing query report file or the current query data formatted as defined in the input scenario.

2.3 FAIS Oriented

FAIS has ten (10) transaction types, many of which are similar to Word Processing and Database transactions. However the volume of data and the size of the documents involved are different. FAIS has two basic types of documents, one is a Word Processing Document comprised of 13,720 characters per document on the average, and the other is an Image Document which is comprised of 180,450 bytes of information. Both types of documents are used within the Database and are treated the same. The ten transaction types are:

a. Create: Create will cause the creation of a new word processing document, or Image documents

b. Modify: Modify will cause the modification of existing documents. The modifications include the insertion of characters or lines, and deletion of characters or lines.

c. Delete: Delete will cause the deletion of documents from the database document library.

d. Query: Queries are performed to review documents.

e. Print: Print will cause the printing of all documents created along with the documents reviewed from other systems via the remote network.

f. Copy: Copy will cause the reproduction of an existing document and re-file the same as a new document for later modifications.

g. Send/Rcv: Send and recieve activity will be that of Electronic Mail, both Intra-System and Remote system activity.

h. Index/Store: Index and store will cause the documents to be stored for later retrieval by the different types of indexes specified in the FAIS design.

i. Imaging: Imaging is the activity of making a digital picture of a picture or document. There will be no modify type activity to an Image type document.

j. Clearance: There are two methods of clearance processing required within FAIS:

Horizontal

Where another user at the same reporting level must be informed via Electronic Mail of the need for a document review and approval. The reviewer will modify 50-60% of the document's review and return the document(s) via Electronic Mail. Via the return process, the originator will be informed that the review is complete.

Vertical

Where another user at the higher reporting level must be informed via Electronic Mail of the need for a document review and approval, the reviewer will modify 50-60% of the documents reviewed and return the document(s) via Electronic Mail. Via the return process, the originator will be informed that the review is complete.

2.4 Interactive

Interactive processing involves the expected types of workload involving the user being at a terminal performing application oriented activities. The five (5) application oriented transaction types are:

a. Create: Create will cause the creation of a data item or record.

b. Modify: Modify will cause the modification of an existing data item or record.

c. Delete: Delete will cause the deletion of an existing data item or record.

d. Query: Query the Data Base and formulate a report for file storage and/or terminal display and/or printing.

e. Print: Print will cause the printing of a report from the retrieved data items.

2.5 Program Development

Program Development involves the type of activity expected when program development is completed via on-line terminals. The five (5) transaction types included in this type of activity are:

a. Create: Create will cause the creation of a new COBOL Program.

b. Modify: Modify will cause the modification of an existing program.

c. Delete: Delete will cause the deletion of an existing Program Source File.

d. Print: Print will cause the printing of an existing Program Source File.

e. Compile: Compile will cause the compilation of the specified COBOL Program

3. WORKLOAD AND TERMINAL MIXES FOR THE BENCHMARK

Benchmark workload requirements are characterized in 1-hour terminal processing units. In order to establish a benchmark workload based upon 1-hour terminal processing units, the terminal scenarios had to be established. A terminal scenario defines the mix of workload category activities which may take place during a terminal connect hour on a given computer system type. The benchmark workload profiles were developed to indicate both the numbers of transactions and terminals required to benchmark the estimated workload and the mix of unique transaction types within each workload category.

Representative programs were identified for each of the workload categories. Transactions for each workload category were reviewed in order to identify those most representative of the Department of State workloads. The transaction types selected for each workload category were then analyzed to determine the estimated processing requirements.

Each transaction was analyzed to determine the expected normal processing requirements to establish the human processing factors (delays).

Each transaction was also analyzed to determine the expected utilization of system resources that each would require. System resources include disk I/O, tape I/O, print I/O, connect time, batch processing, disk storage; all of which would be defined in order to fine tune the benchmark profile.

The human processing factors (delays) incorporated into the estimated resource usage for each transaction allowed for the establishment of overall transaction processing requirements. With these overall processing requirements determined, the transaction mix for each workload category was established. Figure III-2 presents the terminal hour processing transaction mix for each workload category per terminal processing hour.

This task was completed to insure that benchmark processing scenario assignments for individual terminals did not exceed realistic processing limitations.

ESTIMATED WORKLOAD CATEGORY TRANSACTION MIX PER TERMINAL HOUR					
TRANSACTION	WP	DB	FAIS	I/A	PD
CREATE	3	11	1	10	1
MODIFY	2	6	3	40	4
DELETE	1	1	1	1	1
QUERY		9	1	16	
PRINT	5	1	4	4	1
COPY	2		2		
COMPILE					1
SEND / RCV			2		
INDEX / STORE			3		
IMAGING			1		
ELEC MAIL			1		
VER/HOR CLR			1		

Figure III-2

4. WORKLOAD GROWTH PROJECTIONS

Workload growth projections for standard applications, and also annual percentages of growth are presented for the following site categories:

- Large Posts
- Medium Posts
- Small Posts

Figure III-3 presents a summary of the standard application workload growth projections.

FAIS workload growth projections are presented for foreign and domestic sites for the two major FAIS functional categories: input and output. Within each of the two FAIS functional categories, there are several transaction types. The annual FAIS growth projections are provided for each transaction type within the two functional categories for 1986 thru 1991. The FAIS transaction types are as follows:

OUTPUT TRANSACTIONS

Word Processing
Packaging
Enveloping
Electronic Mail
Vertical Clearance
Horizontal Clearance
Send
Store/Index

GROWTH PROJECTIONS FOR STANDARD APPLICATIONS

APPL ID	SMALL POST ANNUAL GROWTH	MEDIUM POST ANNUAL GROWTH	LARGE POST ANNUAL GROWTH
AC	*	*	*
AI	0%	0%	0%
AM	*	*	*
AT	*	*	*
BU	N/A	5%	10%
CM	*	*	*
CO	N/A	2%	1%
CP	N/A	10%	10%
CS	5%	1-5%	2-5%
CW	0%	0%	0%
CX	1%	2%	2%
DA	Limited Use	Limited Use	Limited Use
DR	2%	2%	2%
DS	1%	1%	1%
ES/EM	5%	4%	5%
FB	0%	0%	0%
FM	*	*	*
GE	2%	3%	5%
GM	0%	0%	0%
HL	1%	1%	1%
IA	5%	1%	1%
IC	Limited Use	Limited Use	Limited Use
IV	N/A	5%	5%
MX	N/A	N/A	3%
PE	1%	1-3%	1-2%
PM	Limited Use	Limited Use	Limited Use
PP	5%	4%	5%
PR	*	*	*
RA	Limited Use	Limited Use	Limited Use
RE	N/A	6%	8%
RM	N/A	2%	2%
RP	Limited Use	Limited Use	Limited Use
SE	0%	1%	2%
ST	1-2%	2%	5-6%
SY	Limited Use	Limited Use	Limited Use
TC	Growth is determined by use of other appls.		
UT	*	*	*
VI	1%	2%	3%
WE	1%	2%	3-4%
WP	5%	10%	10%
XX	1%	1%	1%
YY	1%	1%	1%

*Application too new to predict growth.

Figure III-3

INPUT TRANSACTIONS

Receive
Distribution
Index / Store
Review Mail
Forward
Print
Electronic Filing
Retrieval

Figure III-4 presents the summarized domestic FAIS workload growth projections and Figure III-5 presents the summarized foreign FAIS workload growth projections.

FAIS future workload is incorporated into the overall future workload (other four categories) requirements in the following manner.

Year 1 - 10% FAIS Workload
Year 2 - 50% FAIS Workload
Year 3 - 50% FAIS Workload
Year 4 - 75% FAIS Workload
Year 5 - 75% FAIS Workload

All FAIS growth projections (Classified and Unclassified, Foreign and Domestic) are presented in the future workload profile as previously described.

FAIS GROWTH PROJECTIONS
(Domestic)

FAIS TRANSACTION CATEGORY	1986 GROWTH %	1987 GROWTH %	1988 GROWTH %	1989 GROWTH %	1990 GROWTH %	1991 GROWTH %
OUTPUT TRANSACTIONS						
Word Processing	44%	77%	122%	161%	181%	193%
Packaging	50%	67%	120%	155%	171%	190%
Enveloping	28%	11%	10%	18%	15%	13%
Electronic Mail	42%	59%	108%	146%	175%	190%
Vertical Clearance	40%	57%	104%	144%	176%	190%
Horizontal Clearance	40%	57%	104%	144%	176%	190%
Send	41%	58%	107%	146%	175%	190%
Store / Index	13%	11%	10%	18%	15%	13%
INPUT TRANSACTIONS						
Receive	41%	58%	107%	146%	175%	190%
Distribution	41%	58%	107%	146%	175%	190%
Index / Store	41%	58%	107%	146%	175%	190%
Review Mail	41%	58%	107%	146%	175%	190%
Forward	25%	60%	113%	141%	178%	189%
Print	45%	62%	103%	147%	176%	190%
Electronic Filing	43%	60%	113%	144%	175%	190%
Retrieval	16%	14%	12%	18%	15%	13%

Figure III-4

FAIS GROWTH PROJECTIONS (Foreign)

FAIS TRANSACTION CATEGORY	1987 GROWTH %	1988 GROWTH %	1989 GROWTH %	1990 GROWTH %	1991 GROWTH %	1992 GROWTH %
OUTPUT TRANSACTIONS						
Word Processing	31%	65%	104%	146%	174%	190%
Packaging	25%	60%	75%	114%	166%	181%
Enveloping	18%	15%	13%	12%	16%	14%
Electronic Mail	25%	52%	79%	124%	161%	183%
Vertical Clearance	40%	57%	105%	144%	176%	190%
Horizontal Clearance	40%	57%	105%	144%	176%	190%
Send	25%	52%	79%	124%	162%	183%
Store / Index	18%	15%	13%	12%	16%	14%
INPUT TRANSACTIONS						
Receive	25%	52%	79%	124%	162%	183%
Distribution	25%	52%	79%	124%	162%	183%
Index / Store	25%	52%	79%	124%	162%	183%
Review Mail	25%	52%	79%	124%	162%	183%
Forward	33%	38%	82%	130%	159%	184%
Print	26%	50%	81%	122%	163%	183%
Electronic Filing	25%	53%	78%	122%	163%	183%
Retrieval	16%	14%	16%	14%	15%	16%

Figure III-5

4.1 Workload Growth Factors

Figure III-6 discusses workload category growth factors, and Figure III-7 presents C-System category growth factors.

5. BENCHMARK WORKLOAD PROFILES

The benchmark workload profiles indicate the transaction processing mix for each transaction type per workload category, per C-System, per contract years 1, 3 and 5. Vendors must size their proposed processors for installations and required upgrades in years 2 and 4 to satisfy workload through years 3 and 5, respectively.

Figures III-8 thru III-10 present the benchmark workload profiles as follows:

Figure III-8: Benchmark Workload Profile Contract Year 1

Figure III-9: Benchmark Workload Profile Contract Years 2 and 3

Figure III-10: Benchmark Workload Profile Contract Years 4 and 5

For each cell (C-System by workload category), the number of terminals and transactions of that workload category are shown. These requirements are used in the benchmark as the maximum number of terminals in the System Under Test for the subject contract year. Note that the benchmark tests the maximum requirements for the Contract Years 1,3, and 5; not necessarily the equipment configurations which are required to be bid for costing purposes in Section C, Figure C-2, of this RFP. Equipment bid in response to this RFP must be bid so as to meet the maximum workload handling

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MAP ANALYZED GROWTH FACTORS TO WORKLOAD CATEGORIES

WORKLOAD CATEGORY	GROWTH FACTOR ANALYSIS
Interactive	o New interactive applications are expected to be developed using a database management system. Therefore the Database category will experience an increase in resource utilization, however the interactive category resource utilization will remain constant. o The small sites (C1 - C4) are expected to experience a larger annual percentage of growth than large sites (C5 - C6).
Database	o The use of database in new applications combined with the expected conversion of existing applications to a database management system, would cause a significant increase in Database usage.
Word processing	o Word processing is expected to decrease significantly as a workload category, because of the implementation of FAIS. The FAIS workload has a significant amount of word processing functions, and as a consequence many current word processing documents will be processed as FAIS documents. Therefore the introduction of FAIS workload in a dramatically increasing nature over the system life, will cause a corresponding decrease in the word processing workload category, even though there is no decrease in actual word processing activities.
Program Development	o Program development activities are not expected to increase at any significant rate over the system life.
FAIS	o The implementation of FAIS, as previously explained, will effect the word processing workload category; however, there will also be an increase in the workload of the Database category because FAIS applications will utilize database functionality.

Figure III-6

MAP ANALYZED GROWTH FACTORS TO C-SYSTEMS

C-SYSTEM	GROWTH FACTOR ANALYSIS
Interactive	o It is expected that the interactive workload will increase with the size of the processor class. The interactive workload volumes, however, are not expected to have dramatic increase or decrease from C1 - C6.
Database	o The usage of database application will increase with the size of the processor class because the larger sites utilize more unique applications. Several small sites are expected to utilize few available applications.
Word Processing	o The use of the word processing application is expected to decrease as a percentage of total workload even though there will be increase in total word processing volumes. The percentage of word processing workload as part of the overall workload will decrease as the processor size increases (C1 thru C6).
Program Development	o The percentage of program development workload as part of the total workload increases as the size of the processor increases (C1 they C6).
FAIS	o As FAIS is implemented, the percentage of FAIS workload as part of the total workload is assumed to be roughly equivalent for all processor sizes (C1 thru C6).

Figure III-7

requirements as specified in the benchmark when a full configuration of peripherals is being tested, with the exception of the terminals, which are to be tested using the vendors Remote Terminal Emulator (RTE).

ESTIMATED C-SYSTEM FUTURE WORKLOAD PROFILE
CONTRACT YEAR 1

C SYS	WP		FAIS		I/A		DB		PD	
	#TER	#TRX	#TER	#TRX	#TER	#TRX	#TER	#TRX	#TER	#TRX
C1	1	11	0	0	0	0	0	0	0	0
C2	2	22	0	0	2	70	0	0	0	0
C3	7	77	1	1	3	110	1	27	0	0
C4	13	143	2	18	6	220	2	54	1	7
C5	26	286	5	37	12	430	3	81	2	14
C6	53	583	10	90	24	860	5	135	4	28

Figure III-8

ESTIMATED C-SYSTEM FUTURE WORKLOAD PROFILE
CONTRACT YEARS 2 and 3

C SYS	WP		FAIS		I/A		DB		PD	
	#TER	#TRX	#TER	#TRX	#TER	#TRX	#TER	#TRX	#TER	#TRX
C1	1	11	2	36	1	40	0	0	0	0
C2	1	11	5	73	2	70	0	0	0	0
C3	4	44	12	216	6	220	1	27	1	7
C4	7	77	24	432	12	430	3	81	2	14
C5	13	143	44	792	22	790	5	135	4	28
C6	26	286	88	1584	44	1580	9	243	9	63

Figure III-9

ESTIMATED C-SYSTEM FUTURE WORKLOAD PROFILE
CONTRACT YEARS 4 and 5

C SYS	WP		FAIS		I/A		DB		PD	
	#TER	#TRX	#TER	#TRX	#TER	#TRX	#TER	#TRX	#TER	#TRX
C1	0	0	5	145	2	70	1	27	0	0
C2	0	0	10	360	4	140	1	27	1	7
C3	0	0	21	721	8	290	2	54	1	7
C4	0	0	42	1512	16	580	3	81	3	21
C5	0	0	83	2953	32	1150	7	189	6	42
C6	0	0	125	4500	48	1728	10	270	9	63

Figure III-10

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SECTION J
ATTACHMENT IV

TRAINING DESCRIPTIONS

This attachment provides sample training course outlines for those required courses listed in Section C.15, Figure C-10 that do not have references to another Section of this RFP. These samples are designed to clarify any questions regarding the training requirements for:

- Management Overview;
- Trainer Instruction;
- Site Planning for Installation;
- System Management and Administration (ADP and WP);
- System Performance;
- Personal Computer Maintenance; and
- Personal Computer Operations.

The Offeror is referred to Paragraph C.15.5 wherein it is stated that the Offeror is encouraged to combine topics, where appropriate, for a training module and to recommend the minimum and maximum number of students per session. These samples are therefore for guidance only; the Offeror may present different course descriptions including a different course duration.

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MANAGEMENT OVERVIEW

Course Description

Course introduces senior management officers to system features that will be (or are) installed at a site.

Intended Audience

Senior Officers at the site who will be overseeing the general usage of information systems or will be principle users of the systems.

Prerequisites

Interest in the effective use and management of information systems.

Objectives

At end of the course, students should be able to:

1. Explain the basic features of the Vendor's system(s) at the site.
2. Describe how those features can be used effectively.
3. Identify the limitations of the system(s).
4. Identify the resources needed to support the system(s).

Topics

1. General description of information system(s) components; i.e., hardware, software and communications.
2. Key features.
3. Resource requirements.

Course Length

1/2 day

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TRAINER INSTRUCTION

Course Description

Course introduces students to educational principles and techniques necessary to design, customize, and implement an in-house training program. Concentration on student participation via group exercises and individual presentations.

Intended Audience

Those with a requirement to teach information systems topics.

Prerequisites

Knowledge of information systems topics to be taught and basic teaching techniques.

Objectives

At end of the course, students should be able to:

1. Develop lesson plans using goals and objectives that measure specific performance.
2. Demonstrate an understanding of how to apply teaching techniques and learning theories effectively.
3. Use methods that facilitate student discussion and classroom participation.

4. Use audio visual and materials to emphasize important topics.

Topics

1. Course development process.
2. Developing goals and objectives.
3. Training environment.
4. Principles of teaching and learning.
5. Motivation.
6. Communication.
7. Teaching methods.
8. How to ask questions.
9. Making effective presentations.
10. Evaluating training effectiveness.

Course Length

2 days

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SITE PLANNING FOR INSTALLATION

Course Description

Course introduces students to the Vendor's approach to site preparation and installation of hardware, software and communications equipment.

Intended Audience

Senior managers and technical personnel responsible for ensuring that the site is adequately prepared and that the hardware and software are installed properly and on schedule.

Prerequisite

Background in computer facility operations and systems coordination.

Objectives

At the end of the course, students should be able to:

1. Describe the Vendor's role in the site preparation and installation process.
2. Understand the Government's responsibility in the site preparation and installation process.
3. Explain the steps required for successful site preparation and installation.

4. Describe the unique requirements of the site.
5. Describe the configuration to be installed.
6. State how the hardware, software (applications), communications, and interfaces will be installed, optimized, and tested.
7. Describe possible problems that may be encountered and how to avoid and/or solve them.
8. Describe Vendor contact representatives for on-site or telephone assistance required.

Topics

1. Overview of the steps required for successful site preparation and installation.
2. Site specific requirements.
3. Roles and responsibilities of the Vendor and the Government.
4. Systems configuration, installation, optimization, cutover, and testing.
5. Problem management.

Course Length

1 day

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SYSTEM MANAGEMENT AND ADMINISTRATION (ADP and WP)

Course Description

Course introduces students to the features that enable them to monitor and manage the computer facility.

Intended Audience

System managers, database administrators and other technical personnel who will be responsible for the proper utilization and functioning of ADP systems.

Prerequisite

Background in computer facility operations and general knowledge of computer operations at a site (i.e., hardware, software, communications, and security requirements).

Objectives

At the end of the course, students should be able to:

1. Utilize the system management software to schedule and monitor systems resources.

2. Interpret diagnostic messages and reports.

3. Describe malfunctions to Vendor engineers.

4. Understand and describe the characteristics and operating limitations of the hardware, software, and communications equipment.

5. Describe the proposed configuration and be able to reconfigure the system if the need arises.

6. Assign and reassign passwords and priority settings.

7. Balance load on system to maximize throughput.

8. Monitor systems operating status.

9. Describe and operate security features.

Topics

1. System component characteristics and configuration.

2. Reconfiguration.

3. System management software and diagnostics.

4. Scheduling and monitoring resources.

5. Maximizing operational efficiency.

6. Maximizing throughput.

7. Problem management (i.e., fault isolation, how to continue operations when there is a system malfunction, diagnosing problems and contacting Vendor engineers).

8. Use of security features and priority settings.

Course Length

3 days

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SYSTEM PERFORMANCE

Course Description

Course introduces students to Vendor's methodology for improving performance (throughput) of equipment installed.

Intended Audience

Systems managers and other related technical operators responsible for optimizing systems functioning.

Prerequisite

At least one year of experience in operating ADP equipment.

Objectives

At the end of the course, students should be able to:

1. Optimize the systems configuration and maximize utilization of C1-C6 processors and associated workstations and peripherals.
2. Balance the workload.
3. Schedule jobs for maximum efficiency.
4. Assign and reassign devices.
5. Set up communications control.

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6. Set up and control systems monitors and accountability reports in order to determine system availability, throughput, problems and their frequency, etc.

7. Set up and monitor "disk cache" (memory that buffers disk base).

Topics

1. Optimizing the system.

2. How to maximize throughput.

3. Load balancing.

4. Scheduling and prioritizing jobs.

5. Device assignment.

6. Communications control.

7. System monitoring and accountability.

8. Problem identification and resolution.

Course Length

2 days

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PERSONAL COMPUTER MAINTENANCE

Course Description

Course introduces students to fundamental maintenance procedures for the Vendor's personal computers.

Intended Audience

Technical personnel charged with the maintenance and proper functioning of personal computer resources.

Prerequisite

General knowledge of personal computer operations.

Objectives

At the end of the course, students should be able to:

1. Describe the basic components of the personal computer.
2. Understand how the personal computer works.
3. Verify the proper functioning of the personal computer and its peripheral devices.
4. Describe malfunctions to Vendor maintenance representatives.

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Topics

1. Diagnostics, test, and utility procedures.

2. Maintenance and repair procedures.

3. Necessary supplies and ordering procedures.

4. How and when to clean disk drives.

5. How and when to clean the screen.

6. How and when to maintain peripherals.

7. How and when to vacuum the keyboard.

8. Taking the personal computer in for maintenance and testing.

Course Length

1 day

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PERSONAL COMPUTER OPERATIONS

Course Description

Course introduces students to operational procedures for the Vendor's personal computers.

Intended Audience

Professional and technical personnel who will operate the personal computer and use its software.

Prerequisite

General knowledge of personal computers.

Objectives

At the end of the course, students should be able to:

1. Describe the basic components of the personal computer.
2. Understand how the personal computer works.
3. Use the keyboard efficiently, including the function keys.
4. Call-up the prescribed software packages.
5. Understand the use of the operating system.
6. Understand and reply properly to error messages.

Topics

1. Description of the personal computers

2. Use of the keyboard

3. Loading software

4. The Operating System

5. Error messages and their responses

Course Length

1 Day

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SECTION J
ATTACHMENT VI
FEDERAL STANDARDS

SOLICITATION NO. 0000-62-0006JS

Federal Information Processing Standards (FIPS) and Federal Telecommunications Standards (FED-STDS)

Attached is a list of Federal Information Processing Standards (FIPS) and Federal Telecommunications Standards (FED-STDS). Standards applicable to this procurement are indicated with an "X" under the column "Standard Applies." Copies of the standards may be ordered from the address shown in Subsection L.15 "Availability of Specifications and Standards."

Validation of Compilers

In addition to the compiler requirements specified elsewhere in this contract, all compilers for Federal Standard programming languages brought into the Federal inventory as a result of this contract and those compilers used by contractors to develop programs or provide services shall have been tested using the official Compiler Validation System (CVS). Validation shall be in accordance with Federal Information Resources Management Regulation (FIRMR) 201-8.109.

The results of the validation shall be used to confirm that the compiler meets the requirements of the applicable Federal Standard specified elsewhere in this contract. To be considered responsive, the contractor shall:

(a) Certify in the proposal that all Federal Standard programming language compilers offered in response to this contract have been validated previously as set forth in FIRMR 201-8.109 and listed in the latest Federal Software Testing Center (FSTC) Certified Compiler List. Proof of current validation shall be provided in the form of a Certificate of Validation from the FSTC.

(b) Agree to correct all deviations from the applicable Federal Standard which are reflected in the Validation Summary Report (VSR) and not previously covered by a waiver. All deviations shall be corrected within 12 months from the date of contract award unless otherwise specified elsewhere in this contract. If an interpretation of the Federal Standard shall be required

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that will invoke the procedures set forth in FIPS PUB 29-1, such a request for interpretation shall be made within 30 calendar days after contract award. Any corrections that are required as a result of decisions made under the procedures of FIPS PUB 29-1 shall be completed within 12 months of the interpretation. Proof of correction in either case will be in the form of a Certificate of Validation from the FSTC for the corrected compiler. Failure to make required corrections within the time limits set forth above shall be deemed as failure to deliver required software. The liquidated damages as specified for failure to deliver the operating system or other software shall apply.

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Hardware SUBCATEGORY: Interchange Codes and Media, page 1 of 3
X			FIRMR 201-8.105-1 FIPS PUB 1-2, Code for Information Interchange, Its Representation, Subsets, and Extensions
	X		FIRMR 201-8.105-2 FIPS PUB 2, Perforated Tape Code for Information Interchange
X			FIRMR 201-8.105-3 FIPS PUB 3-1, Recorded Magnetic Tape for Information Interchange (800 CPI, NRZI)
	X		FIRMR 201-8.105-5 FIPS PUB 13, Rectangular Holes in Twelve-row Punched Cards
	X		FIRMR 201-8.105-6 FIPS PUB 14-1, Hollerith Punch Card Code
X			FIRMR 201-8.105-8 FIPS PUB 25, Recorded Magnetic Tape for Information Interchange (1600 CPI, Phase Encoded)

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Hardware SUBCATEGORY: Interchange Codes and Media, page 2 of 3
	X		FIRMR 201-8.105-9 FIPS PUB 26, One-inch Perforated Paper Tape for Information Interchange
	X		FIRMR 201-8.105-10 FIPS PUB 27, Take-up Reels for One-Inch Perforated Tape for Information Interchange
X			FIRMR 201-8.105-16 FIPS PUB 50, Recorded Magnetic Tape for Information Interchange 6250 CPI (246 cpmm), Group Coded Recording
X			FIRMR 201-8.105-17 FIPS PUB 51, Magnetic Tape Cassettes for Information Interchange, 3.810 mm (0.150 in.), Tape at 32 bpmm (800 bpi), Phase Encoded
X			FIRMR 201-8.105-18 FIPS PUB 52, Recorded Magnetic Tape Cartridge for Information Interchange, 4 track, 6.30 mm (0.250 in.), 63 bpmm (1600 bpi), Phase Encoded

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Hardware SUBCATEGORY: Interchange Codes and Media, page 3 of 3
	X		FIRMR 201-8.105-19 FIPS PUB 54, Computer Output Microform (COM) Formats and Reduction Ratios, 16mm and 105 mm
	X		FIRMR 201-8.105-28 FIPS PUB 84, Microfilm Readers
X			FIRMR 201-8.105-30 FIPS PUB 86, Additional Controls Standard Code for Information Interchange
X			FIRMR 201-8.105-32 FIPS PUB 91, Federal Standard for Magnetic Tape Cassettes for Information Interchange, Dual Track, Complementary Return-to-Bias (CRB), Four-States Recording on 3.81 mm (0.150 in) Tape.
X			FIRMR 201-8.105-33 FIPS PUB 93, Parallel Recorded Magnetic Tape Cartridge for Information Interchange, 4 Track 6.30mm (0.250 inch), 63 bpmm (1600 bpi), Phase Encoded.

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Hardware SUBCATEGORY: I/O Interface, page 1 of 2
X			FIRMR 201-8.105-20 FIPS PUB 60-2, Input/Output (I/O) Channel Interface
X			FIRMR 201-8.105-21 FIPS PUB 61-1, Channel Level Power Control Interface
X			FIRMR 201-8.105-22 FIPS PUB 62, Operational Specifications for Magnetic Tape Subsystems
X			FIRMR 201-8.105-23 FIPS PUB 63-1, Operational Specifications for Variable Block Rotating Mass Storage Subsystems
X			FIRMR 201-8.105-34 FIPS PUB 97, Operational Specifications for Fixed Block, Rotating Mass Storage Subsystems
X			FIRMR 201-8.105-35 FIPS PUB 107, Local Area Networks; Baseband Carrier Sense Multiple Access with Collision Detection Access Method and Physical Layer Specifications and Link Layer Protocol

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Hardware SUBCATEGORY: I/O Interface, page 2 of 2
X			FIRMR 201-8.105-37 FIPS PUB 111, Storage Module Interfaces (With Extensions for Enhanced Storage Module Interfaces).

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But WAs Waived	Standards
			CATEGORY: Hardware SUBCATEGORY: Transmission, page 1 of 2
X			FIRMR 201-8.113-1 FIPS PUB 37 (FED STD-1001), Synchronous High Speed Data Signaling Rates Between Data Terminal and Data Communication Equipment
X			FIRMR 201-8.113-2 FIPS PUB 16-1 (FED-STD 1010), Bit Sequencing of the Code for Information Interchange in Serial-by-Bit Data Transmission
X			FIRMR 201-8.113-3 FIPS PUB 17-1 (FED-STD 1011), Character Structure and Character Parity Sense for Serial-by-Bit Data Communication in the Code for Information Interchange
X			FIRMR 201-8.113-4 FIPS PUB 18-1 (FED-STD 1012), Character Structure and Character Parity for Parallel-by-Bit Data Communication in the Code for Information Interchange
X			FIRMR 201-8.113-5 FIPS PUB 22-1 (FED-STD 1013), Synchronous Signaling Rates Between Data Terminal and Data Communication Equipment

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Hardware SUBCATEGORY: Transmission, page 2 of 2
X			FIRMR 201-8.113-6 FIPS PUB 71, (FED-STD 1003A), Advanced Data Communications Control Procedures (ADCCP)
X			FIRMR 201-8.113-7 FIPS PUB 100 (FED STD 1041), Interface between Data Terminal Equipment (DTE) and Data Circuit-Terminating Equipment (DCE) for Operation with Packet-Switched Data Communication Network

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Hardware SUBCATEGORY: Character Recognition, page 1 of 1
X			FIRMR 201-8.105-11 FIPS PUB 32-1, Optical Character Recognition Character Sets (OCR-A and OCR-B)
X			FIRMR 201-8.105-12 FIPS PUB 33, Character Set for Handprinting
X			FIRMR 201-8.105-29 FIPS PUB 85, Optical Character Recognition (OCR) Inks
X			FIRMR 201-8.105-31 FIPS PUB 89, Federal Standard for Optical Character Recognition (OCR) Character Positioning

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Software SUBCATEGORY: Programming Languages, page 1 of 1
X			FIRMR 201-8.107-1 FIPS PUB 21-1, COBOL
X			FIRMR 201-8.107-2 FIPS PUB 68, MINIMAL BASIC
X			FIRMR 201-8.107-3 FIPS PUB 69, FORTRAN

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Software SUBCATEGORY: Documentation, page 1 of 1
X			FIRMR 201-8.106-2 FIPS PUB 24, Flow Chart Symbols and Their Usage in Information Processing
X			FIRMR 201-8.106-3 FIPS PUB 30, Software Summary for Describing Computer Programs and Automated Data Systems
X			FIRMR 201-8.106-4 FIPS PUB 53, Transmittal Form for Describing Computer Magnetic Tape File Properties
X			FIRMR 201-8.106-5 FIPS PUB 79, Magnetic Tape Labels and File Structure for Information Interchange

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: ADP Operations SUBCATEGORY: Computer Security, page 1 of 1
X			FIRMR 201-8.105-15 FIPS PUB 46, Data Encryption Standard (DES)
X			FIRMR 201-8.105-24 FIPS PUB 81, Data Encryption Standard (DES) Modes of Operations

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Federal General SUBCATEGORY: Data Standard Representations and Codes, page 1 of 2
			FIRMR 201-8.110-1 FIPS PUBS applicable to the interchange of machine processable data between and among agencies
X			FIPS PUB 4, Calendar Date
X			FIPS PUB 5-1, States and Outlying Areas of the United States
X			FIPS PUB 6-3, Counties and County Equivalents of the States of the United States and the District of Columbia
X			FIPS PUB 8-5, Standard Metropolitan Statistical Areas (Including CMSAs, PMSAs and NECMAs)
X			FIPS PUB 9, Congressional Districts of the United States
X			FIPS PUB 10-3, Countries, Dependencies, Areas of Special Sovereignty, and Their Principal Administrative Divisions

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Federal General SUBCATEGORY: Data Standard Representations and Codes, page 2 of 2
X			FIPS PUB 58, Representations of Local Time of the Day for Information Interchange
X			FIPS PUB 59, Representations of Universal Time, Local Time Differentials, and United States Time Zone References for Information Interchange
X			FIPS PUB 66, Standard Industrial Classification (SIC) Codes
X			FIPS PUB 70, Representation of Geographic Point Locations for Information Interchange
X			FIPS PUB 95, Code for the Identification of Federal and Federally-Assisted Organizations
	X		FIPS PUB 103, Codes for the Identification of Hydrologic Units in the United States and Carribbean Outlying Areas

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Federal Telecommunication Standards (FED-STD) SUBCATEGORY: Communication, page 1 of 2
X			FIRMR 201-8.112-1 FED-STD 1002, Time and Frequency Reference Information in Telecommunication Systems
X			FIRMR 201-8.112-4 FED-STD 1005, Coding and Modulation Requirements for Nondiversity 2400 Bits per Second Modems
X			FIRMR 201-8.112-5 FED-STD 1006, Coding and Modulation Requirements for Duplex 4800 Bits per Second Modems
X			FIRMR 201-8.112-6 FED-STD 1007, Coding and Modulation Requirements for Duplex 9600 Bits per Second Modems
X			FIRMR 201-8.112-7 FED-STD 1008, Coding and Medulation Requirements for Duplex 600 and 1200 Bits per Second Modems
	X		FIRMR 201-8.112-8 FED-STD 1015, Telecommunications: Analog to Digiital Conversion of Voice by 1400 Bit/Second Linear Predictive Coding

SOLICITATION NO. 0000-62-0006JS

STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Federal Telecommunication Standards (FED-STD) SUBCATEGORY: Communication, page 2 of 3
X			FIRMR 201-8.112-11 FED-STD 1020A, Electrical Characteristics of Balanced Voltage Digital Interface Circuits
X			FIRMR 201-8.112-12 FED-STD 1026, Telecommunications: Interoperability and Security Requirements for Use of the Data Encryption Standard in the Physical Layer of Data Communications
X			FIRMR 201-8.112-13 FED-STD 1027, General Security Requirements for Equipment Using the Data Encryption Standard
	X		FIRMR 201-8.112-14 FED-STD 1028, Telecommunications: Interoperability and Security Requirements for Use of the Data Encryption Standard with CCITT Group 3 Facsimile Equipment
X			FIRMR 201-8.112-16 FED-STD 1030A, Electrical Characteristics of Unbalanced Voltage Digital Interface Circuits

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STANDARDS CHECKLIST

Check Appropriate Column			
Standard Applies	Standard Does Not Apply	Standard Applies But Was Waived	Standards
			CATEGORY: Federal Telecommunication Standards (FED-STD) SUBCATEGORY: Communication, page 2 of 2
X			FIRMR 201-8.112-25 FED-STD 1061, Group 2 Facsimile Apparatus for Document Transmission
X			FIRMR 201-8.112-26 FED-STD 1062, Group 3 Facsimile Apparatus of Document Transmission
X			FIRMR 201-8.112-27 FED-STD 1063, Telecommuniations: Procedures for Document Facsimile Transmission

SECTION J
ATTACHMENT VII

CONFIGURATION MANAGEMENT

1. BACKGROUND

The Department of State (DOS), with other Agencies participating, will establish a Configuration Management Program (CMP) upon award of the contract resulting from this Request For Proposal (RFP). The purpose of this program will be to provide a forum for the management and technical control of the range of equipment and software throughout the systems life. The successful Offeror to this RFP will have certain responsibilities in the CMP, and, therefore, each Offeror's proposal must provide a detailed description of how that responsibility will be fulfilled. The vendor's responsibility will be shown by the word "VENDOR" in the following paragraphs.

2. OVERVIEW

The CMP will provide a methodical framework for performing the tasks relating to the technical, administrative and audit phases of life-cycle management. Specifically, the CMP will:

a. Identify and document functional and physical characteristics of the hardware, software (VENDOR supplied, standard and local unique applications) and communications components.

b. Control all changes to those characteristics.

c. Record and report changes to the configuration components, and record the status of implementation.

d. Monitor system(s) utilization and reliability.

e. Audit to confirm conformance to the configuration baseline or identify inconsistencies.

3. MANAGEMENT

3.1 Organization

The Program Manager for the CMP will be the Director of the User Support Staff within the Information Services Office. The VENDOR will appoint a counterpart to the Program Manager. The VENDOR counterpart must have authority to act for the VENDOR as required.

3.1.1 Configuration Management Control Board (CMCB)

The Program Manager of the CMP will be the Chairman of the Configuration Management Control Board (CMCB). DOS information-systems users will be appointed to the CMCB. The VENDOR counterpart will be a member of the CMCB except when specific procurement decisions are being made.

3.1.2 Charter

The purpose of the CMCB is to provide on-going management throughout the contract life-cycle of installed equipment, software, and documentation. The CMCB will identify and document baselines; evaluate and coordinate additions or changes to the baselines and/or the components; monitor system(s) utilization and reliability; and take such actions as may be necessary as a result of the configuration audits.

3.2 Meetings

The initial meeting of the CMCB will be held within thirty (30) days after the award of the contract. At that meeting the Chairman will introduce the additional Government personnel. During the initial meeting the ground rules for the conduct of future meetings will be made. Future meetings will be at the call of the Chairman, as described in later paragraphs.

3.3 References

The CMP will be guided by several references:

a. Requirements Analysis Document
b. This RFP
c. The VENDOR's proposal
d. The VENDOR's manuals and publications.

4. CONFIGURATION IDENTIFICATION

4.1 Configuration Components

There will be several baseline configurations dependent upon the number of sites ("like" configurations will be grouped together for a baseline). Each configuration will be identified and documented as described in the following subparagraphs. All data will be updated monthly, as a minimum, and will be available monthly and as requested.

4.1.1 Functional - The functional characteristics will be identified and documented. - (DOS).

4.1.2 Application Systems - The application systems/programs, to include standard and local unique, will be identified and documented (program name and version, language, database design, and test data). - (DOS)

4.1.3 Hardware - Hardware will be identified down to the component level (that which is separately charged for) and documented by appropriate manuals that describe the technical characteristics. The price, model, and serial number will be part of the identification. Date of installation and acceptance plus warranty expiration will also be recorded. A VENDOR inventory of all installed equipment will be maintained by location on magnetic media, and access to the inventory will be provided to the Government. The Government will inform the VENDOR of system(s) acceptance and system(s) moves. - (VENDOR)

4.1.4 VENDOR-Supplied Software - The VENDOR-supplied software will be identified and documented (system/program name and version, language, associated libraries and database characteristics, as appropriate). An inventory of all installed VENDOR - supplied software will be maintained by location on magnetic media, and access to the inventory will be provided to the Government. - (VENDOR)

4.1.5 Manuals and Publications - Manuals and Publications will be identified and documented by name and release number or date as appropriate. - (VENDOR)

4.1.6 Utilization and Reliability - Monthly records on utilization and reliability (downtime reports) will be maintained. - (DOS)

4.2 Baselines

A baseline will be developed for each site.. The baseline will comprise the foregoing configuration components with the responsibility for each component as indicated. The CMP Program Manager will designate a new baseline when a differing configuration or architecture is developed.

5. CONFIGURATION CONTROL

Configuration control consists of the evaluation, coordination, approval, implementation, recording and auditing of the baselines and the components plus all changes thereto. It further consists of inventory management and control. The succeeding paragraphs describe these functions.

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5.1 Procedures

The CMCB in coordination with the VENDOR will establish the specific procedures within sixty (60) days after award of the contract. The identification and recording of the baseline(s) will be as stated in Paragraphs 4 and 6.1. All future baseline identifications will be accomplished as Paragraph 5.1.1 prescribes, for initial guideline purposes only.

5.1.1 Baseline Identification - The CMP Program Manager will monitor the installation schedule of hardware and software, and when a new configuration or architecture is to be implemented, a CMCB meeting may be convened. The purpose of the meeting will be to insure that the necessary component identifications are made, documented and recorded. The CMP Program Manager will also monitor the utilization of current installations to determine, in sufficient time, that augmentation or upgrading is required. The CMP Program Manager will also comply with the DOS ADPE procurement policies.

5.1.2 Baseline Changes - Requests for changes to currently installed baselines may originate from the users as well as the CMP Program Manager. These requests are handled in accordance with prescribed ISO procedures. In addition to these procedures, the CMP Program Manager will convene the CMCB to determine if the baseline needs to be altered based upon new requirements or the monitoring of utilization and reliability information. If the discussion involves a procurement decision, the VENDOR counterpart will be excluded from that decision-making meeting.

6. CONFIGURATION AND STATUS REPORTING

6.1 Register

The CMP Program Manager will maintain a register in which the baselines and the constituent components are identified and recorded. The register will further identify where the supporting documentation is deposited. Updates to the register will be made from time-to-time as either the baselines or the component parts change. The VENDOR will maintain the equipment and vendor-supplied software inventory and thus provide updates to the register.

6.2 Status Report

The Chairman will write a status report for several occurrences:

- Report on the CMCB meetings
- Report on the implementation of a new baseline
- Report on a baseline change.

The VENDOR counterpart will write a monthly status report on all actions relating to the installation of new baselines or changes to the VENDOR configuration components, and on all installations of equipment/software based upon the individual purchase orders. Additionally, the VENDOR counterpart will also provide a special status report when equipment downtime has exceeded the hours presented in Figure F-1, to include action being taken.

6.2.1 Distribution - The VENDOR counterpart will distribute an original and one copy of the VENDOR Status Report, required by Paragraph 6.2, to the CMP Program Manager. The CMP Program Manager will forward a copy to the Deputy Assistant Secretary for Information Systems (A/ISO). Additional copies will be distributed to members of the CMCB and applicable user organizations. Distribution of the CMCB chairman's status report will be made in the same manner.

6.2.2 Order Status and Shipping Information - The VENDOR will provide each Agency or Department ordering from this contract with access to an automated on-line order tracking system which will provide order status and shipping information as outlined below. Each Agency or Department must be able to access this on-line system between the hours of 7:00 AM and 6:00 PM weekdays (Washington, D.C. time) excluding Government holidays.

All necessary terminals, software, and communications protocols that the VENDOR uses to implement this system will be available and supported under this contract and will be compatible with the hardware and software procured under this contract. The VENDOR agrees to maintain this system for the life of the contract and, at a minimum, to update the database daily to reflect changes in the status of orders. The design of the database will permit selective retrieval of data according to user-defined criteria. The VENDOR will provide each Agency or Department with passwords, telephone numbers, documentation, and relevant instructions to facilitate access to the database. Each Agency will have the right to query, print, sort, and utilize these data for its own internal management purposes.

The following minimum information is required:

a. Date purchase order is received by VENDOR
b. Purchase order number and VENDOR's internal control number, if applicable
c. Estimated ship dates/delivery dates
d. Actual ship dates, if international, or delivered dates, if domestic
e. Airway bill number, carrier, number of cartons, and total weight of shipment

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f. Quantity of equipment/supplies shipped
g. Model and serial numbers (where applicable) of equipment shipped
h. Ship to address and contact person
i. Purchase/Lease Cost and Shipping Costs
j. Invoice Address
k. Return dates for items returned by the Agency
l. Invoice Credits
m. Reasons for delays or holds placed on orders.

This information is required to track the following actions:

n. Hardware procurements
o. Software procurements
p. Supplies orders
q. Partial shipments
r. Misshipments
s. Equipment returned by receiving office (because equipment was received in damaged state or incorrect equipment was shipped)
t. Return of defective equipment (damaged while in normal use) for replacement.

7. CONFIGURATION AUDITS (DOS)

The purpose of configuration audits is to verify compliance of the installed systems (hardware and software) with the documented components. There will be two types of audits as discussed in the following paragraphs.

7.1 Functional Audit - The functional audit of an installed system(s) will be conducted to determine if the functional performance as identified and documented in the register is being achieved. The audit results will be documented and submitted to the CMCB for any action that may be necessary.

7.2 Physical Audit - The physical audit of an installed system will be conducted to determine if the on-site hardware, software, and documentation are in conformance with that identified and documented in the register. The audit results will be documented and submitted to the CMCB for any action that may be necessary.

7.3 Audit Schedule - The CMP Program Manager will develop an annual audit schedule of the installed systems. The timing and frequency of on-site audits will be at the discretion of the Program Manager.

September 12, 1986

SECTION J
ATTACHMENT VIII

DEPARTMENT OF STATE
TEMPEST QUALITY ASSURANCE

1. INTRODUCTION

To insure the initial and continued TEMPEST integrity of products accredited as meeting NACSIM 5100A and procured by the Department of State, the manufacturer will establish and support a Quality Assurance Program which includes the following features:

a. Quality Program - This program will address the integration of the TEMPEST design product. It will include the identification of critical features into the overall design of the product. It will include the identification of critical featuress which are parts, features, assemblies and assembly processes which are ciritical to the TEMPEST performance of each unique product. The acceptability of these "critical features" will be monitored/assured by instituting incomeing inspection/acceptance procedures; process flow management; and inprocess and final inspections.

b. Product Testing - Quality of manufactured units will be monitored by a program for testing specific quantities of units produced.

c. Maintenance/Life Cycle Support - Manufacturer provided maintenance will include specific safeguards and features to assure that servicing/reconfiguration of fielded units guarantees satisfactory TEMPEST performance. If the manufacturer does not provide maintenance, he will furnish the customer with the documentation required to establish maintenance procedures which assure continued TEMPEST integrity.

2. QUALITY PROGRAM REQUIREMENTS

a. The manufacturer will submit to the Department (OC/S) a written document which identifies the critical features as described in Section 4 of this Attachment.

b. The manufacturer will submit to the Department (OC/S) a synopsis of the process flow, incoming inspection, inprocess inspections, and final inspection programs as described in Section 5 of this Appendix.

c. Specific information including inspection techniques, data logging procedures, and inspection sheets need not be submitted to OC/S but will be retained two years after unit production by the manufacturer so they may be examined by Department (OC/S) during a plant visit.

d. All critical features identification, process flow, incoming inspection, inprocess inspection and final inspection procedures must be approved in writing by the company appointed TEMPEST authority (CATA).

3. PRODUCT TESTING REQUIREMENTS

The manufacturer of a product for possible procurement by the Department of State is required to perform QA testing in two categories: 1) basic testing of production units 2) increased testing based on discovery of TEMPEST failures. In addition, within three months after initial production, a production test must be performed by 1) a certified TEMPEST tester of the manufacturer or 2) a certified tester of the original certifying test facility or 3) a totally independent test facility (someone other than the manufacturer or original certifying test facility). A letter evidencing this successfully production test must be forwarded to the Department (OC/S) within thirty days after completion of the test.

Selection of product samples for QA testing shall be made on a random (blind) basis. There shall be no advance indication that a unit is scheduled for QA testing and it must not be subjected to any additional or unusual pretest screening or rework. Ideally, 99% of shipped TEMPEST equipment should fully comply with NACSIM 5100A. This QA program cannot, in and of itself, meet this ideal objective. However, when coupled with other elements of the TEMPEST program, (i.e. certification of TEMPEST testers and independent Government sample testing) Government Agencies can be more confident of product quality. If failures are detected, sufficient rework and testing must be performed to fix any failed units.

3.1 Basic testing Requirements

The basic minimum testing requirements for QA testing are outlined in the table below:

BASIC TESTING SCHEDULE

Lot Size	Sample Rate
1-10	Minimum 1 Unit
11-49	Minimum 2 Units
50-99	Minimum 3 Units
100-179	Minimum 4 Units
180 or Greater	Minimum 5 Units or 3 % whichever is greater

As described above, samples shall be selected on a random basis and should be uniformly distributed over the production lot (one which is likely to have uniform process statistics having been done over a period of one year with like environment and staff). Whenever a production line is started, restarted, or subjected to major process or personnel changes, one of the first 10 production units shall be included as a production test sample. If multiple production lines or facilities are employed, these requirements will be independently applied to each line or facility. Manufacturers which produce lots and production runs of greater than 1000 units per year or 100 per month, may submit justification for reducing testing requirements either by limiting the scope and duration of each production test or further lowering of the percentage of units tested. Justification should address such areas as process stability, additional quality program features, and increased inspection criteria which would support such a reduction. Final acceptance of such reduced testing will be responsibility of the Department (OC/S). Table 1 categorizes the signals to be tested into three types. Each sample will be tested for Type I signals. Type II signals may be tested on a rotating basis for each sample but testing for all Type II signals must be performed on each lot. Type III testing may be spread over two lots. Additional reduction of test media will be considered if justified by initial Department of State qualification test results, continued satisfactory performance of QA testing, and/or technical rationale.

3.2 Actions Requiring Increased Testing

a. Independent test failure (by customer - by OC/S or other government agencies.

b. Two failures (of some feature) over span of two sequential lots.

3.3 Increased Testing Schedule

Lot Size	Sample Rate
1-49	9% (minimum of 1)
50-99	7% (minimum of 4)
100-179	5% (minimum of 7)
180 or more	4% (minimum of 10)

3.4 Justification for Returning to Normal Testing

Two successive lots with no failures of the feature which required increased testing.

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3.5 Accountability

The manufacturer must institute procedures which will allow identification of products and original purchases of products known or suspected of failing to meet Department (OC/S) requirements.

3.6 Notification

The manufacturer shall verbally notify Department (OC/S) within five days of discovery of a failure during basic testing. If increased testing uncovers successive failures, the manufacturer must notify Department (OC/S) in writing ten days after the failure is discovered. The manufacturer must also identify affected units already delivered to original purchases. This information must be provided to the Department of State if requested. The manufacturer will determine the cause and develop appropriate fixes for all detected failures and make modification kits as appropriate, available to original purchasers of all affected units. A manufacturer will be given a grace period of one quarter. It is the policy of the Department (OC/S) to work closely with manufacturers in resolving failures detected during product testing. Failure of the manufacturer to cooperate with or continue to comply with Department (OC/S) requirements will be grounds for contract default.

4. MAINTENANCE AND LIFE CYCLE SUPPORT REQUIREMENTS

Continued maintenance of TEMPEST equipment is important to insure consistent TEMPEST integrity. A performance/reliability evaluation of all TEMPEST modifications should be done during the design stage to insure long field life. Although manufacturers are not responsible for user actions that change the configuration or alter TEMPEST features, a TEMPEST manufacturer must insure that their field maintenance personnel provide the special expertise and support for TEMPEST features. To provide specialized TEMPEST service, we recommend a thorough company training program to teach field engineers proper implementation and inspection or critical features. A preventive maintenance (PM) critical features list should be an essential tool for field engineers and customers/users. The following requirements apply to maintenance and life cycle support:

a. If a customer engineering service contract exists, it shall include periodic PM critical feature inspections by field engineers. This critical feature inspection shall be a part of regular customer visits for repair, upgrading, etc. PM critical features must be identified in field engineering maintenance manuals.

b. If the user/customer is responsible for maintenance, the manufacturer shall identify all PM critical TEMPEST features in the customer maintenance manual. This manual must describe location and maintenance procedures and sources of supply for the PM critical features.

5. OVERALL QUALITY PROGRAM

Reliable TEMPEST performance is dependent on an overall commitment to TEMPEST quality which permeates the total manufacturing cycle. This overall program can be broken into the following sub-areas:

a. Critical Features Identification - The Company Appointed TEMPEST Authority (CATA) must work closely with the product design staff to assure that those features, parts, or assembly procedures which are critical to the TEMPEST performance of the device are identified during the design of the product. Due to variation in product technology, critical features must be independently and uniquely defined for each product. A critical features list must change to accommodate product evolution. Included in the enclosure are examples of critical features.

b. Process Flow - The integration and assembly of TEMPEST critical features during the assembly process shall be described in a written document to include incoming inspection, inprocess inspection, and final inspection points and procedures. As a minimum, this document should include:

1. A process flow diagram indicating major assembly steps, material flow (e.g. out-of-stockroom) and defined inspection points.

2. Definition of inprocess inspection points and sign-off should occur when subsequent assembly steps will obscure areas of visual inspection or prevent subassembly test.

3. Identification of final inspection point in relation to box and pack point, burn-in point and rework point.

c. Incoming Inspection - Procedures for incoming inspection and their relationship with the manufacturing process will be identified for all parts, components, or subassemblies identified as critical. Written documentation should be prepared which includes the following items:

1. Identification of special test procedures/equipment e.g. filter insertion loss test.

2. Establishment of clear pass-fail criteria.

3. When plans include the purchase of certified quality parts (e.g. parts accepted without incoming inspection) from a vendor, the following will be included:

   - Vendor inspection instructions / procedures which assure quality of identified parameters.

   - Inspections are conducted to confirm that vendor can and does perform proper Q/A activity.

   - Identification of vendor used marks/stamps or other documentation of Q/A activity.

d. Inprocess Inspection - To insure a means of measuring compliance with requirements at a point where features are easily inspectable and the corrective actions are easily effected, an inprocess inspection program should be identified. This program should highlight those critical features which are related to the assembly process (e.g. proper positioning, correct torque of fasteners, insertion of gasketing, proper termination of shields, etc.). A written document will be prepared which includes:

1. A statement of definitive pass/fail criteria.

2. Identification of any required rework procedures.

3. Identification of inspection stamps and/or traveling sign-off sheets.

4. Identification of logging procedures for inspection failures.

5. Identification of special tools, guages, or techniques used in the inspection process and a description for use and calibration procedures.

e. Final Inspection - A final inspection program will be developed which assures that each finished product has been 100% inspected for satisfactory implementation of all TEMPEST critical features. A written description of this procedure will be prepared which includes:

1. Statement of definitive pass/fail criteria.

2. Identification of any rework procedures.

3. Identification of inspection stamps and/or traveling sign-off sheets.

4. Identification of logging procedures for inspection failures.

5.1 Examples for Critical Features

- Designed - in features -
  - Addition of signal conditioning components.
  - Addition of shielded compartment.
  - Addition of overall shield.
  - Special ground configuration/point.
  - Software restrictions.

- Inherent features -
  - Use of "slow" transistors/IC's in a critical circuit.
  - Bandwidth capability of analog circuit.
  - Size of buss.
  - Switching power supply rate.

- Special Parts -
  - Powerline filters.
  - Shielded wire.
  - Gasket.
  - Connectors/backshells.

- Revision Level of Critical Parts -
  - Print head driver PC board.
  - Video amplifier PC board.
  - Asynchronous I/O interface.

- Design Features of Non-Added Parts -
  - Keyboard sense lines current limit.
  - Use of capacitive type keyboard.
  - Strobe skew control for print head drive wires.

- Important Tolerance -
  - Gasket gap under compression.
  - Gasket surface flatness.
  - Plating thickness.
  - Control minimum and maximum transition times.
  - Print head shield dimension/gaps.

- Important Processess -
  - Torque wrench usage.
  - Flux and solder used for bonding.

  - Preparation of gasket matting surface.
  - Wire routing consistency.
- Important Material -
  - Use of steel/aluminum.
  - Type of plating.
  - Type of chemical film conversion.
  - Type of gasket wire used.
  - Cable shielding (wire type, % coverage).

5.2 Table 1

Table 1 will be provided by the Department (OC/S) for each equipment contract or sub-system contract.

September 12, 1986

SECTION J

ATTACHMENT IX

INSTALLATION SCHEDULE

Figure IX-3, Installation Schedule, lists for evaluation purposes computer systems which are currently installed or which are due to be installed over the five-year contract life at any location within the U.S. Department of State, the U.S. Information Agency, the U.S. Agency for International Development, or the Peace Corps. For evaluation purposes, installations have been shown to occur on a quarterly basis (i.e., physical installation scheduled for Day 1 of FY Quarter Number). Data are presented in the sequence U.S. Department of State, U.S. Information Agency, U.S. Agency for International Development and Peace Corps. Finally, there are the total data for all four departments/agencies combined as depicted by Figure IX-1.

Within each department/agency, data are presented in the sequence of domestic sites details, domestic sites totals, foreign sites details, foreign sites totals, domestic and foreign totals as shown in Figure IX-2.

For both domestic and foreign sites, total data are preceded by detail data. Detail data are presented in sequence by ORGANIZATION-CODE (ORG CODE), which is a six character code that provides a unique identification for each site. Detail data pages contain eight columns having the following headings:

SITE
ORG CODE
CURRENT YEAR
CONTRACT YEAR 1
CONTRACT YEAR 2
CONTRACT YEAR 3
CONTRACT YEAR 4
CONTRACT YEAR 5

The values printed under the heading "SITE" describe the sites identified by the values printed under the heading "ORG CODE". In the "CURRENT YEAR" and "CONTRACT YEAR" columns are values which identify the actual systems installed or due to be installed. Any of the following values may appear:

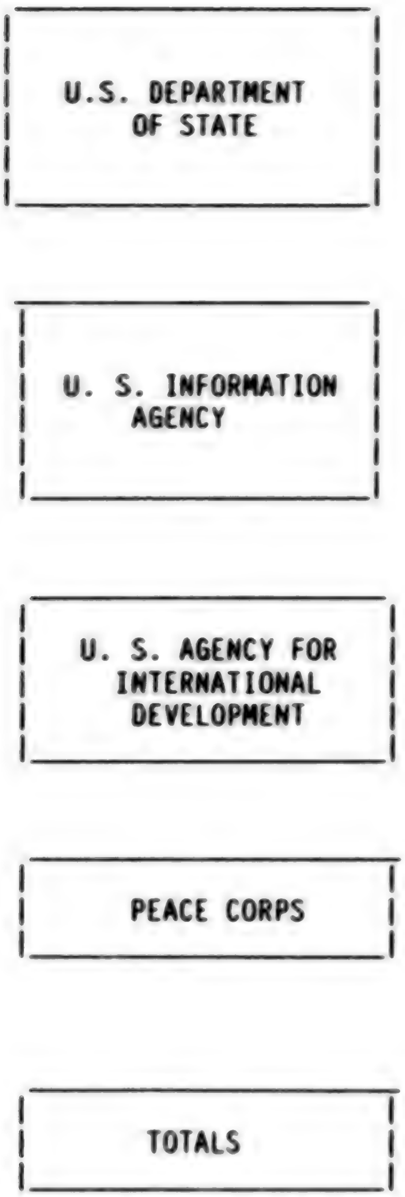

Figure IX-1

INSTALLATION SCHEDULE ORGANIZATION

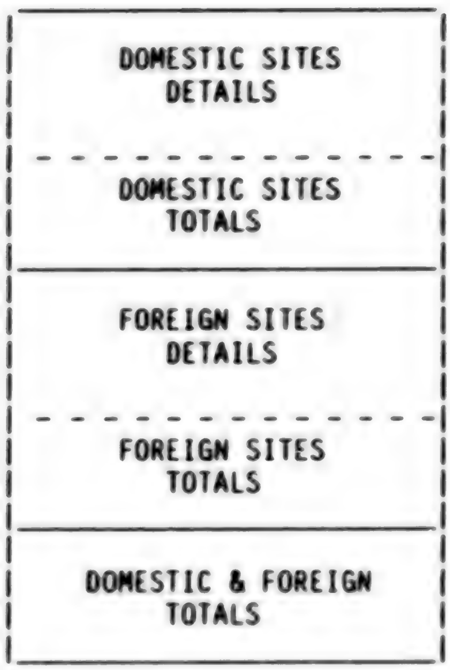

Figure IX-2

DATA ORGANIZATION WITHIN A DEPARTMENT/AGENCY

col
co2
co3
co4
cv1
cv2
cv3
cv4
cv5

W1
C1
C2
C3
C4
C5
C6

Identifiers containing lower case characters identify only those systems which are currently installed; if they appear under a "CONTRACT YEAR" heading they indicate that the current system is expected to remain at that site through that contract year. Identifiers containing only upper case characters identify systems which are to be acquired; these do not appear under the heading "CURRENT YEAR". The current system categories and current processor models, are defined as follows:

CURRENT WANG SYSTEMS PLACEMENT INTO CURRENT SYSTEMS CATEGORIES

CURRENT SYSTEM CATEGORY	CURRENT PROCESSOR MODELS
cv1	VS-15
cv2	VS-25, VS-45
cv3	VS-65, VS-80,
cv4	VS-90, VS-85, VS-85T
cv5	VS-100
col	PC, PCT
co2	WPS-5, WPS-20, WPS-20T, OIS-40 OIS-50, OIS-105, OIS-105T
co2	OIS-60, OIS-115, OIS-115T
co3	WPS-25, WPS-25T, WPS-30, WPS-30T, OIS-125, OIS-130, OIS-135T
co4	OIS-140, OIS-140T, OIS-145 AL-250, AL-7550T

Where any identifier is followed by the character-T (always upper case) this means that the system is the TEMPEST version. Where the same system identifier appears in successive columns, this indicates that the same system is expected to remain at that site through those years. If a system is scheduled to be replaced in a given year, then the identifier of the system which will replace it appears in the column for the year in which it will be replaced. The following table reflects the characters and their definitions used in Figure IX-3;

Character	Definition
*	Precedes a system identifier that is a projected new acquisition under this contract. The new system may be: 1) A replacement for the existing system that precedes it on the same site/orgcode line. Additional existing systems, which may or may not appear within the same site/orgcode may also be replaced by the new system. These occurrences are shown in Figure IX-4. 2) A new system which does not replace any existing systems.
@	Precedes a system identifier that is a projected replacement system that was previously installed at another location. These are existing systems that will be moved to new sites.
D	Precedes a system identifier which has been designated as one of the six (6) Development Systems.
Q and a digit (1-4)	Identifies the quarter of the year in which the system is to be installed.
--	Identifies when an existing system is being taken out of operation and is either replaced by a new system or transferred to another existing system.
T	Appears after system identifiers and represents a TEMPEST system.

In the case of the identifiers - col and W1 - which identify the PC's, a figure appears within parentheses beneath the system identifier itself; this figure shows the number of systems identified. All other identifiers indicate the presence of a single system.

In the "totals" for each Department/Agency, Target Systems show the totals of systems which are scheduled to be installed, either as replacements for existing systems or as completely new installations. Systems are shown in the years in which they are scheduled to be installed and in the years thereafter through which they are scheduled to remain installed. These totals are 'cumulative' - that is, if the same system is scheduled to be installed in contract year 2 and to remain installed through years 3, 4 and 5, then it will be included in the totals for each of these years.

Acquisitions (non-cumulative) show the totals of systems as they are scheduled to be acquired. These totals are non-cumulative - that is, any one system will be included only in the totals for the year in which it is scheduled to be acquired. There are columns for all the years of the contract except for the current year and, for each system type, separate horizontal lines for each quarter of a year. Thus these totals show, for system type, the numbers scheduled to be acquired in any quarter of any year through the life of the contract.

As vendors review Figure IX-3 in detail, the pattern of installations, replacements and 'movements of existing equipment' becomes apparent. The following is a summary of the types of system dispositions shown in the Figure IX-3:

- o New system replacing a single existing system - In most cases, an existing system is shown as 'disappearing' the year that the new system is to be installed. This occurs at the same site on the same line in the Figure IX-3. This disposition is shown with the character '*'. Conversion will be required, in accordance with Section CC.

- o New system replacing multiple existing systems - one new system may replace several existing systems within one or more site. These other existing systems are usually depicted as being replaced in the same year that the new system is installed. There are a few occurrence when existing systems continue operating for a few years and are then replaced. This disposition is also shown with the character '*'. Conversion will be required, in accordance with Section CC.

- o New system being added to a site - a number of sites will be receiving new systems that will not replace any existing systems. This disposition is also shown with the character '*'. Conversion will not be required under this contract.

- o A moved existing system replacing existing system(s) - A number of sites will be receiving new systems that will not replace any existing systems. This disposition is also shown with the character '@'. Conversion will not be required under this contract.

- o Existing systems being removed from the inventory - Several existing systems are shown as 'disappearing' without a new or moved system coming into that site. These systems are being removed from the inventory. Conversion will not be required under this contract.

In several cases, it is not readily apparent as to what the system disposition is at a site. Figure IX-4 addresses each of the locations where the actual system disposition is unclear.

All domestic sites are located in Washington, D.C. with the following exceptions for the Department of State:

Department of State Domestic non-Washington D.C. Area Sites in the Installation Schedule

Site	Orgcode	City/State
RP/New York	031103	New York City, New York
IO: USUN	161084	New York City, New York
A/OPR/STP/T/BA	221171	Baltimore, Maryland
A/OPR/STP/T/MI	221182	Miami, Florida
A/OPR/STP/T/NY	221184	New York City, New York
A/OPR/STP/T/SF	221190	San Francisco, California
A/SY/I/SFO	252000	San Francisco, California
A/SY/I/BFO	252200	Boston, Massachusetts
A/SY/I/CFO	252300	Chicago, Illinois
A/SY/I/LAFO	252400	Los Angeles, California
A/SY/I/MFO	252500	Miami, Florida
A/SY/I/NYFO	252600	New York City, New York
A/SY/I/DFO	252800	Dallas, Texas
A/SY/I/PFO	252900	Philadelphia, Pennsylvania

Figure C-2 in Section C contains the hardware configurations which must be proposed, for evaluation purposes only, by CPU type C1-C6 and W1. This Section J, Attachment IX contains the installations, for evaluation purposes, of these configurations in the contract-life quarter. These figures along with the Tables B-1, B-2, B-3, B-4, and B-5 shall be the basis for completing the hardware/software/support of Section C portions of the Installation Summary Price Table B-6, and Section 2 of Volume II-A. The following is an example for completing the hardware portion of Table B6, and Section 2 of Volume II-A: In Figure IX-3 of Attachment IX, a C2 is shown as being acquired in the 1st Quarter of Contract Year 2 for organization code 321802 Thessaloniki. Refer to Figure C2, Configuration Table, and for a C2 configuration it is determined that a C2 configuration in Contract Year 2 consists of the following:

4	W1s (referring to the asterisk, it is seen that a W1 has 10 MB of storage with it; not the total W1 configuration)
3	W2s
1	S4
1	T1
1	T3 (referring to the double asterisk, the T3 will be ordered in lieu of a T1 as part of a C2 configuration only for every 4th C2 ordered)
1	P2
2	P4s
1	G2

This, then, is a C2 configuration when ordered in Contract Year 2; the price entered for equipment for this installation then consists of the total of the unit prices (Table B-1) for these components of a C2 configuration.

Figure IX-3 will be made available on magnetic tape to those Offerors who request the LTD materials (refer to Attachment XX).

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INSTALLATION SCHEDULE (FOR EVALUATION PURPOSES ONLY)

DOMESTIC SITES: US DEPARTMENT OF STATE

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE S: S	010101	co2T	co2T	co2T	--	--	--
	010101	co2T	co2T	co2T	--	--	--
	010101	co2T	co2T	co2T	--	--	--
	010101	co2T	co2T	co2T	--	--	--
	010101	co2T	co2T	co2T	--	--	--
STATE S: S/R	010108	co3	co3	co3	--	--	--
STATE S: S/SN	010110	co4T	co4T	co4T	co4T	co4T	co4T
STATE S: CPR	010200	co2	co2	co2	co2	co2	co2
	010200	co2	co2	co2	co2	co2	co2
	010200	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	010200		* Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	010200	cv4	cv4	cv4	cv4	cv4	cv4
STATE S: S-S	010621	cv4T	cv4T	cv4T	cv4T	--	--
	010621	cv4T	cv4T	cv4T	* Q1 C6T	C6T	C6T
	010621	cv4T	cv4T	cv4T	--	--	--
	010621	co3T	co3T	co3T	--	--	--
STATE S: S-D	010622	co2T	co2T	co2T	--	--	--
	010622	co2T	co2T	co2T	--	--	--
STATE S: S-I	010623	co3T	co3T	co3T	--	--	--
STATE S: S-EX	010630	co4	co4	co4	co4	co4	co4
	010630	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	010630		* Q2 W1 (4)	W1 (4)	W1 (4)	W1 (4)	W1 (4)

FIGURE IX-3

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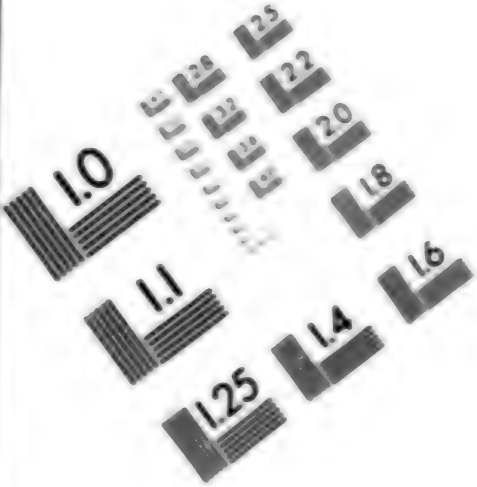

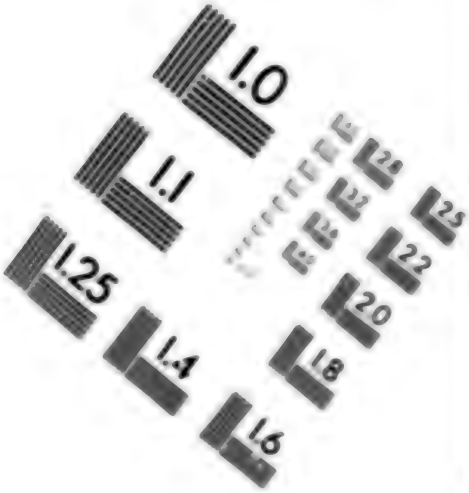

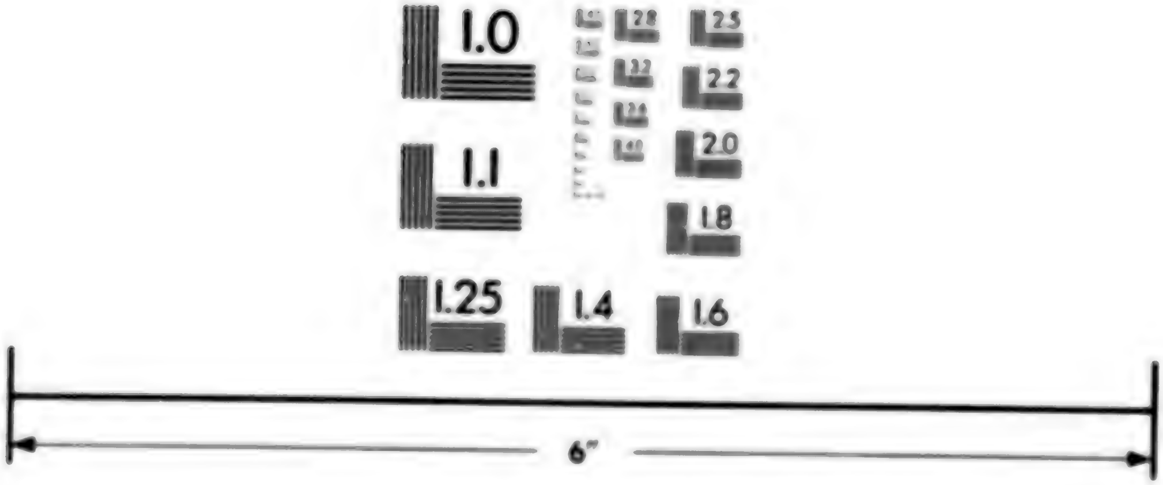

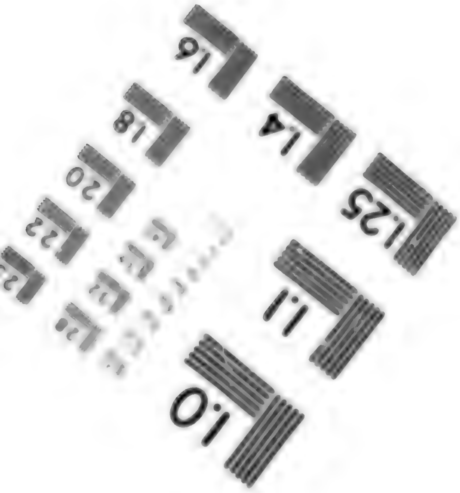

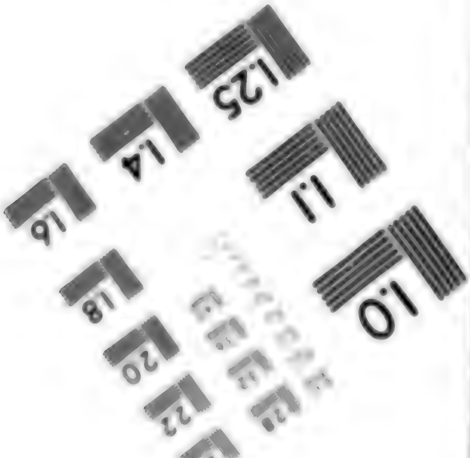

DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE S: S-EX	010630			* Q1 W1 (4)	W1 (4)	W1 (4)	W1 (4)
	010630				* Q2 W1 (4)	W1 (4)	W1 (4)
	010630						* Q1 W1 (4)
STATE S: P	011100	co2T	co2T	co2T	--	--	--
	011100	co2T	co2T	co2T	--	--	--
	011100	co2T	co2T	co2T	--	--	--
	011100	co2T	co2T	co2T	--	--	--
	011100	co2T	co2T	co2T	--	--	--
	011100	co2T	co2T	co2T	--	--	--
	011100	co2T	co2T	co2T	--	--	--
STATE D	011200	co2T	co2T	co2T	--	--	--
STATE M: CT	011205	co4T	* Q3 C3T	C3T	C3T	C3T	C3T
STATE P	011500	co2T	co2T	co2T	--	--	--
	011500	co3T	co3T	co3T	--	--	--
STATE S: T	011600	co4T	co4T	co4T	co4T	co4T	co4T
STATE S: E	011700	co2T	co2T	co2T	--	--	--
STATE M	012100	co3T	co3T	co3T	co3T	co3T	co3T
STATE M/WHL	012103	co2	* Q4 C1	C1	C1	C1	C1
STATE M: EX	012200	co4	co4	co4	co4	co4	co4
	012200	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	012200	cv3	cv3	cv3	cv3	cv3	cv3
STATE M: FA	012400	co2	* Q3 C1	C1	C1	C1	C1
STATE M: EEOCR	012500	co2	co2	co2	co2	* Q1 C1	C1
STATE M: FLO	012600	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)

FIGURE IX-3

DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE M: FLO	012600		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	012600			• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	012600				• Q3 W1 (1)	W1 (1)	W1 (1)
STATE M: MD	012700	co4T	co4T	• Q3 C5T	C5T	C5T	C5T
	012700	co4T	co4T	--	--	--	--
	012700	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
STATE M/OFM	012900	co4T	co4T	co4T	co4T	co4T	co4T
STATE S/IG	013000	co1T (5)	co1T (5)	co1T (5)	co1T (5)	co1T (5)	co1T (5)
	013000		• Q1 W1T (1)	W1T (1)	W1T (1)	W1T (1)	W1T (1)
	013000			• Q4 W1T (1)	W1T (1)	W1T (1)	W1T (1)
STATE S/IG/IS	013400	cv4T	cv4T	cv4T	cv4T	cv4T	cv4T
	013400	co3T	co3T	co3T	co3T	co3T	co3T
STATE S/IG/EX	013600	co3T	co3T	co3T	co3T	co3T	co3T
STATE PM: OD	014010	co4T	--	--	--	--	--
	014010	co2T	co2T	co2T	co2T	co2T	co2T
STATE PM: EX	014020	co4T	• Q3 C5T	C5T	C5T	C5T	C5T
	014020	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)
	014020	co2T	co2T	co2T	co2T	co2T	co2T
	014020	co2T	co2T	co2T	co2T	co2T	co2T
STATE PM: AS/MC	014230	cv3	cv3	• Q1 C5	C5	C5	C5
STATE PM: ST/TMP	014520	co2T	co2T	co2T	co2T	co2T	co2T
STATE M/MED	016000	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)

FIGURE IX-3

DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE M/MED	016000	cv5	cv5	cv5	cv5	cv5	cv5
	016000	co2T	co2T	co2T	co2T	co2T	co2T
STATE HA	018000	co4T	co4T	co4T	co4T	co4T	* Q2 C4T
STATE INM/EX	019300	co4	co4	co4	co4	* Q2 C5T	C5T
	019300	co2	co2	co2	co2	--	--
	019300	co1 (9)	co1 (9)	co1 (9)	co1 (9)	co1 (9)	co1 (9)
	019300	co1T (3)	co1T (3)	co1T (3)	co1T (3)	co1T (3)	co1T (3)
STATE OES	020100	co4	co4	co4	co4	* Q3 C3	C3
	020100	co3	co3	co3	co3	--	--
STATE OES: EX	021000	co4	co4	co4	co4	co4	co4
	021000	co4T	co4T	co4T	co4T	co4T	co4T
	021000	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)
	021000		* Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	021000			* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	021000				* Q4 W1 (1)	W1 (1)	W1 (1)
	021000					* Q4 W1 (1)	W1 (1)
	021000						* Q3 W1 (1)
	021000	co1T (2)	co1T (2)	co1T (2)	co1T (2)	co1T (2)	co1T (2)
	021000		* Q1 W1T (1)	W1T (1)	W1T (1)	W1T (1)	W1T (1)
	021000			* Q3 W1T (1)	W1T (1)	W1T (1)	W1T (1)
	021000				* Q1 W1T (1)	W1T (1)	W1T (1)

FIGURE IX-3

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DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE OES: EX	021000					* Q1 WIT (1)	WIT (1)
	021000						* Q4 WIT (1)
STATE RP	031100	co4	co4	--	--	--	--
	031100	co4	co4	-	--	--	--
	031100	co4	co4	co4	co4	co4	co4
	031100	co4	co4	co4	co4	co4	co4
	031100	co4T	co4T	co4T	co4T	co4T	co4T
	031100	co4T	co4T	co4T	co4T	co4T	co4T
	031100	co1 (10)	co1 (10)	co1 (10)	co1 (10)	co1 (10)	co1 (10)
	031100		* Q2 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	031100	cv2	cv2	@ Q4 cv5	cv5	cv5	cv5
	031100	cv4	cv4	cv4	cv4	cv4	cv4
STATE RP/NEW YORK	031103		* Q3 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	031103			* Q1 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	031103				* Q2 W1 (3)	W1 (3)	W1 (3)
	031103					* Q2 W1 (3)	W1 (3)
	031103						* Q1 W1 (3)
	031103	cv5	cv5	cv5	cv5	cv5	cv5
STATE L	040100	co1T (18)	co1T (18)	co1T (18)	co1T (18)	co1T (18)	co1T (18)
	040100	cv5	cv5	cv5	cv5	cv5	cv5
	0' 100	cv3	cv3	cv3	cv3	cv3	cv3
STATE L: CMB	044200	co4	co4	co4	co4	co4	co4

FIGURE IX-3

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DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE: EB	050100	co4T	co4T	co4T	co4T	co4T	co4T
	050100	co4T	co4T	co4T	co4T	co4T	co4T
	050100	co4T	co4T	co4T	co4T	co4T	co4T
	050100	co4T	co4T	co4T	co4T	co4T	co4T
	050100	co1 (16)	co1 (16)	co1 (16)	co1 (16)	co1 (16)	co1 (16)
	050100	cv5	cv5	cv5	cv5	cv5	cv5
BUR OF INT & RES.	060000	co2	co2	co2	co2	co2	co2
STATE INR	061000	co4T	co4T	co4T	co4T	co4T	• Q2 C6T
	061000	co1T (1)	co1T (1)	co1T (1)	co1T (1)	co1T (1)	co1T (1)
STATE INR: EX	061100	co4T	co4T	co4T	co4T	co4T	--
STATE INR: IS	061300	co4T	co4T	co4T	co4T	co4T	--
	061300	co3T	co3T	co3T	co3T	co3T	--
STATE INR: AA	062100	co3T	co3T	co3T	co3T	co3T	co3T
STATE INR: IAA	062200	co3T	co3T	co3T	co3T	co3T	co3T
STATE INR: EAP	062300	co3T	co3T	co3T	co3T	co3T	co3T
STATE INR: NESA	062500	co3T	co3T	co3T	co3T	co3T	co3T
STATE INR/SEE	062600	co3T	co3T	co3T	co3T	co3T	co3T
STATE INR: WEA	062700	co3T	co3T	co3T	co3T	co3T	co3T
STATE INR: PMA	063500	co3T	co3T	co3T	co3T	co3T	co3T
STATE INR: C	064000	co4T	co4T	co4T	co4T	co4T	co4T
	064000	co1T (1)	co1T (1)	co1T (1)	co1T (1)	co1T (1)	co1T (1)
STATE INR: IL/CO	064120	co4T	co4T	co4T	co4T	co4T	co4T
	064120	co3T	co3T	co3T	co3T	co3T	co3T
STATE INR/IRE	064300	co3T	co3T	co3T	co3T	co3T	co3T
STATE INR: IC	064400	co3T	co3T	co3T	• Q3 C3T	C3T	C3T

FIGURE IX-3

DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE INR/IC/MP	064420	co3T	co3T	co3T	• Q4 C3T	C3T	C3T
STATE INR/AR	065000	co4T	co4T	co4T	co4T	co4T	co4T
STATE INR: RCRS	065020	co4T	co4T	co4T	co4T	co4T	co4T
STATE INR: LAR	065100	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)
	065100	co3T	co3T	co3T	co3T	co3T	co3T
STATE INR/LAR/CR	065120	co2	co2	co2	co2	co2	co2
STATE INR: EC	065200	co3T	co3T	co3T	co3T	• Q3 cv4T	cv4T
STATE INR: GE	065300	co3T	co3T	co3T	co3T	co3T	co3T
STATE INR/GI	065400	co2	co2	co2	co2	co2	co2
STATE INR/GI/T	065420	co2	co2	co2	co2	co2	co2
STATE M	070000		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	070000			• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	070000				• Q1 W1 (1)	W1 (1)	W1 (1)
	070000					• Q4 W1 (1)	W1 (1)
	070000						• Q3 W1 (1)
	070000	co4T	co4T	• Q3 C5T	C5T	C5T	C5T
	070000	co2	co2	co2	co2	co2	co2
STATE M/COMP/BP	083000	co1 (41)	co1 (41)	co1 (41)	co1 (41)	co1 (41)	co1 (41)
	083000		• Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	083000	co1T (1)	co1T (1)	co1T (1)	co1T (1)	co1T (1)	co1T (1)
	083000	cv5	cv5	• Q4 C6	C6	C6	C6
STATE M/COMP/FS	085000		(D)Q2 C5	C5	C5	C5	C5

FIGURE IX-3

DOMESTIC SITES: US DEPARTMENT OF STATE

07/31/85

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE M/COMP/FS	085000	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)
	085000		• Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	085000	cv5	cv5	cv5	cv5	cv5	cv5
STATE M/COMP/FO	086000	co1 (44)	co1 (44)	co1 (44)	co1 (44)	co1 (44)	co1 (44)
	086000	cv5	• Q4 C6	C6	C6	C6	C6
STATE PA: EX	100200	co4	co4	co4	co4	co4	co4
	100200	co1 (3)	co1 (3)	co1 (2)	co1 (3)	co1 (3)	co1 (3)
	100200		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	100200			• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	100200				• Q2 W1 (1)	W1 (1)	W1 (1)
	100200					• Q1 W1 (1)	W1 (1)
	100200						• Q4 W1 (1)
STATE PA: HO	101000	co4	co4	co4	co4	co4	co4
STATE PA: PRESS	101100	co4	co4	co4	co4	co4	co4
STATE PA: PP	101500		• Q3 C4	C4	C4	C4	C4
	101500	co4	co4	co4	co4	co4	co4
STATE ARA	110100	co4T	co4T	co4T	• Q3 C4T	C4T	C4T
	110100	cv4T	cv4T	cv4T	cv4T	cv4T	cv4T
	110100	cv4T	cv4T	cv4T	cv4T	cv4T	cv4T
STATE ARA: EX	110200		• Q4 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	110200			• Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)

FIGURE IX-3

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DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE ARA: EX	110200				• Q4 W1 (2)	W1 (2)	W1 (2)
	110200					• Q2 W1 (2)	W1 (2)
	110200						• Q1 W1 (2)
	110200	cv5	cv5	cv5	cv5	cv5	cv5
STATE ARA: AND	111700	co3T	co3T	co3T	co3T	co3T	co3T
STATE EUR	120100	co2T	• Q3 C4T	C4T	C4T	C4T	C4T
	120100	co2T	--	--	--	--	--
	120100	co3T	--	--	--	--	--
STATE EUR: PA	120101	co2T	co2T	co2T	co2T	co2T	co2T
STATE EUR:PP	120109	co2	co2	co2	co2	co2	co2
STATE EUR: EX	120200	co4	co4	co4	co4	co4	co4
	120200	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	120200	cv2	• Q4 C3	C3	C3	C3	C3
	120200	co2T	co2T	co2T	co2T	co2T	co2T
	120200	co3	--	--	--	--	--
STATE EUR: RPM	120800	co4T	co4T	co4T	co4T	co4T	co4T
	120800	co3T	co3T	co3T	co3T	co3T	co3T
STATE EUR: RPE	120900	co3T	co3T	co3T	co3T	co3T	co3T
STATE EUR: SOV	121200	co4T	co4T	co4T	• Q1 cv4T	cv4T	cv4T
	121200	co1T (2)	co1T (2)	co1T (2)	co1T (2)	co1T (2)	co1T (2)
	121200	co2T	co2T	co2T	--	--	--
	121200	co2T	co2T	co2T	--	--	--
	121200	co2T	co2T	co2T	co2T	--	--
	121200	co2T	co2T	co2T	co2T	co2T	--

FIGURE IX-3

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE EUR. SOV	121200	co2T	co2T	co2T	co2T	co2T	co2T
	121200	co3T	co3T	co3T	co3T	co3T	--
	121200	co3T	co3T	co3T	co3T	co3T	--
STATE EUR: CE	121300	co4T	co4T	co4T	co4T	co4T	co4T
STATE EUR: WE	121400	co3T	--	--	--	--	--
STATE EUR: CAN	121700	co2T	--	--	--	--	--
	121700	co2T	--	--	--	--	--
STATE EUR: NE	121800	co3T	--	--	--	--	--
STATE EUR: EEY	122100	co2T	--	--	--	--	--
	122100	co2T	--	--	--	--	--
	122100	co3T	--	--	--	--	--
STATE EUR: SE	122200	co3T	• Q3 C5T	C5T	C5T	C5T	C5T
	122200	co3T	--	--	--	--	--
STATE EAP	130100	cv4T	cv4T	cv4T	cv4T	cv4T	cv4T
	130100	co3T	• Q4 C4T	C4T	C4T	C4T	C4T
STATE EAP: EP	130101	co2T	--	--	--	--	--
	130101	co3	--	--	--	--	--
	130101	co2	--	--	--	--	--
STATE EAP: EX	130200	co4	--	--	--	--	--
	130200	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	130200		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	130200			• Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	130200				• Q2 W1 (1)	W1 (1)	W1 (1)
	130200					• Q3 W1 (1)	W1 (1)

FIGURE IX-3

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE EAP: EX	130200						* Q2 W1 (1)
	130200	co2T	--	--	--	--	--
STATE EAP: P	130300	co2T	--	--	--	--	--
STATE EAP: RA	130600	co3T	--	--	--	--	--
STATE EAP: C	130700	co4T	co4T	* Q4 C4T	C4T	C4T	C4T
	130700	co3T	co3T	--	--	--	--
STATE: EAP/RA/TC	131000	co2T	co2T	--	--	--	--
STATE EAP: K	131100	co3T	co3T	--	--	--	--
STATE EAP: J	131200	co3T	co3T	--	--	--	--
STATE EAP: VLC	131400	co2T	co2T	--	--	--	--
STATE EAP: ANZ	131600	co2T	co2T	--	--	--	--
	131600	co3T	co3T	--	--	--	--
STATE EAP: IMBS	131700	co3T	co3T	--	--	--	--
STATE EAP: PHL	131900	co2T	co2T	--	--	--	--
	131900	co2T	co2T	--	--	--	--
	131900	co3T	co3T	--	--	--	--
STATE EAP: PIA	132000	co2T	co2T	--	--	--	--
STATE EAP: T	132100	co3T	co3T	--	--	--	--
	132100	co3T	co3T	--	--	--	--
STATE NEA	140100	co3	co3	--	--	--	--
	140100	co4T	co4T	co4T	co4T	co4T	co4T
	140100	co4	co4	--	--	--	--
	140100	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	140100	cv4T	cv4T	cv4T	cv4T	cv4T	cv4T
	140100	co2	co2	* Q1 C5	C5	C5	C5
	140100	co3	co3	--	--	--	--

FIGURE IX-3

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DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE NEA	140100	co3	co3	--	--	--	--
	140100	co3	co3	--	--	--	--
STATE AF: P	150103	co2	co2	co2	co2	co2	co2
STATE AF: EX	150200	co4T	co4T	co4T	co4T	co4T	--
	150200	co4T	co4T	co4T	co4T	co4T	--
	150200	co4T	co4T	co4T	co4T	co4T	--
	150200	co1	co4	co4	co4	co4	--
	150200	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	150200	co1T (3)	co1T (3)	co1T (3)	co1T (3)	co1T (3)	co1T (3)
	150200	cv3	cv3	cv3	cv3	cv3	--
	150200	cv4T	cv4T	cv4T	cv4T	cv4T	• Q3 C6T
	150200	cv4T	cv4T	cv4T	cv4T	cv4T	--
STATE IO	160100	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	160100		• Q2 W1 (7)	W1 (7)	W1 (7)	W1 (7)	W1 (7)
	160100			• Q2 W1 (6)	W1 (6)	W1 (6)	W1 (6)
	160100	cv3	cv3	cv3	cv3	cv3	cv3
	160100	co2T	co2T	co2T	co2T	co2T	co2T
	160100	co2	co2	co2	co2	co2	co2
STATE IO: USUN	161084		• Q3 C4T	C4T	C4T	C4T	C4T
	161084	co4T	co4T	co4T	co4T	co4T	co4T
	161084	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	161084		• Q4 W1 (8)	W1 (8)	W1 (8)	W1 (8)	W1 (8)
	161084			• Q3 W1 (6)	W1 (6)	W1 (6)	W1 (6)

FIGURE IX-3

DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE IO: USUN	161084	cv3	cv3	cv3	cv3	cv3	cv3
STATE IO: UNP	163100		* Q1 W1 (8)	W1 (8)	W1 (8)	W1 (8)	W1 (8)
	163100			* Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	163100				* Q3 W1 (1)	W1 (1)	W1 (1)
	163100					* Q4 W1 (1)	W1 (1)
	163100						* Q4 W1 (1)
	163100	co3T	co3T	* Q1 WIT (5)	WIT (5)	WIT (5)	WIT (5)
	163100				* Q4 WIT (1)	WIT (1)	WIT (1)
	163100					* Q1 WIT (1)	WIT (1)
	163100						* Q1 WIT (1)
STATE IO: HR	163300		* Q2 W1 (8)	W1 (8)	W1 (8)	W1 (8)	W1 (8)
	163300			* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	163300				* Q1 W1 (1)	W1 (1)	W1 (1)
	163300					* Q2 W1 (1)	W1 (1)
	163300						* Q2 W1 (1)
	163300	co2T	co2T	* Q3 WIT (2)	WIT (2)	WIT (2)	WIT (2)
	163300				* Q2 WIT (1)	WIT (1)	WIT (1)
	163300					* Q3 WIT (1)	WIT (1)

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FIGURE IX-1

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SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE ID: HR	163300						* Q3 WIT (1)
STATE ID: S	164800	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	164800		* Q3 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	164800			* Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	164800				* Q3 W1 (1)	W1 (1)	W1 (1)
	164800					* Q4 W1 (1)	W1 (1)
	164800						* Q4 W1 (1)
	164800	co3T	co3T	* Q1 WIT (5)	WIT (5)	WIT (5)	WIT (5)
	164800				* Q4 WIT (1)	WIT (1)	WIT (1)
	164800					* Q1 WIT (1)	WIT (1)
	164800						* Q1 WIT (1)
STATE ID: DIC	165100		* Q4 W1 (8)	W1 (8)	W1 (8)	W1 (8)	W1 (8)
	165100			* Q2 W1 (5)	W1 (5)	W1 (5)	W1 (5)
	165100	co2	co2	co2	co2	co2	co2
	165100	co2	co2	* Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)
STATE ID/IR	165400	co4	co4	co4	co4	co4	co4
	165400	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	165400		* Q1 W1 (8)	W1 (8)	W1 (8)	W1 (8)	W1 (8)
	165400			* Q4 W1 (6)	W1 (6)	W1 (6)	W1 (6)

FIGURE IX-3

DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE IO: DB	165500	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	165500		• Q2 W1 (8)	W1 (8)	W1 (8)	W1 (8)	W1 (8)
	165500			• Q1 W1 (6)	W1 (6)	W1 (6)	W1 (6)
STATE IO	169900		• Q3 W1 (8)	W1 (8)	W1 (8)	W1 (8)	W1 (8)
	169900	co2	co2	co2	co2	co2	co2
	169900	co2	co2	• Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	169900	co2	co2	• Q3 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	169900	co2T	co2T	• Q4 W1T (1)	W1T (1)	W1T (1)	W1T (1)
	169900	co2T	co2T	• Q1 W1T (1)	W1T (1)	W1T (1)	W1T (1)
	169900	co3T	co3T	• Q2 W1T (5)	W1T (5)	W1T (5)	W1T (5)
	169900	co3T	co3T	• Q3 W1T (4)	W1T (4)	W1T (4)	W1T (4)
STATE A	201000	co4T	co4T	co4T	co4T	• Q2 C3T	C3T
	201000	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	201000		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	201000	co1T (1)	co1T (1)	co1T (1)	co1T (1)	co1T (1)	co1T (1)
STATE A/EX	201100	co4	co4	co4	co4	co4	• Q2 C5
	201100	co4	co4	co4	co4	co4	--
	201100	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	201100		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)

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FIGURE IX-3

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DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE A/EX	201100			* Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	201100				* Q1 W1 (1)	W1 (1)	W1 (1)
	201100					* Q3 W1 (1)	W1 (1)
	201100						* Q3 W1 (1)
STATE A/CDC	201600	co2	co2	co2	co2	co2	co2
	201600	co3T	co3T	co3T	co3T	co3T	co3T
STATE A/DS	203100	co4	co4	co4	co4	co4	co4
STATE A/ALS	203300	co4	co4	co4	co4	co4	co4
	203300	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
STATE A/FBO	208000		* Q3 C5	C5	C5	C5	C5
	208000				* Q2 C6	C6	C6
	208000	co2	--	--	--	--	--
	208000	co4	--	--	--	--	--
	208000	co4	--	--	--	--	--
	208000	co4	--	--	--	--	--
	208000	co4	--	--	--	--	--
	208000	co1 (22)	co1 (22)	co1 (22)	co1 (22)	co1 (22)	co1 (22)
	208000	cv5	* Q4 C6	C6	C6	C6	C6
STATE A/ISD	209000	co4	co4	co4	--	--	--
STATE A/ISD/USS	209010		(D)Q1 C5	C5	C5	C5	C5
	209010	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	209010		* Q2 W1 (8)	W1 (8)	W1 (8)	W1 (8)	W1 (8)
	209010	cv5	cv5	cv5	cv5	cv5	cv5

FIGURE IX-3

DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE A/ISO/USS	209010	cv5	cv5	cv5	cv5	cv5	cv5
STATE A/ISO/SDP	209100	co4T	co4T	co4T	co4T	co4T	co4T
	209100	cv5	cv5	cv5	* Q3 C6	C6	C6
STATE M/DGP/PC	210010		* Q3 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	210010			* Q1 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	210010				* Q4 W1 (3)	W1 (3)	W1 (3)
	210010					* Q4 W1 (3)	W1 (3)
	210010						* Q4 W1 (3)
	210010	co2	co2	co2	co2	co2	co2
	210010	co2	co2	co2	co2	--	--
STATE M/DGP/PER	210100		* Q4 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	210100			* Q2 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	210100				* Q1 W1 (3)	W1 (3)	W1 (3)
	210100		* Q1 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	210100			* Q3 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	210100				* Q2 W1 (3)	W1 (3)	W1 (3)
	210100					* Q1 C3	C3
	210100	co2	co2	co2	co2	* Q2 C3	C3
STATE M/DGP/PA	210700		* Q2 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	210700			* Q4 W1 (3)	W1 (3)	W1 (3)	W1 (3)

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FIGURE IX-3

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SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE M/DGP/PA	210700				• Q3 W1 (3)	W1 (3)	W1 (3)
	210700					• Q3 W1 (3)	W1 (3)
	210700						• Q1 W1 (3)
	210700	co2	co2	co2	co2	--	--
STATE PER/PPM	212800		• Q3 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	212800			• Q1 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	212800				• Q4 W1 (3)	W1 (3)	W1 (3)
	212800					• Q4 W1 (3)	W1 (3)
	212800						• Q2 W1 (3)
	212800	co2	co2	co2	co2	co2	co2
STATE PER/REE	213000		• Q4 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	213000			• Q2 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	213000				• Q1 W1 (3)	W1 (3)	W1 (3)
	213000					• Q1 W1 (3)	W1 (3)
	213000						• Q3 W1 (3)
	213000	co4	co4	co4	co4	co4	co4
STATE PER/FCA	214000		• Q1 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	214000			• Q3 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	214000				• Q2 W1 (3)	W1 (3)	W1 (3)

FIGURE IX-3

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DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE PER/FCA	214000					• Q2 W1 (3)	W1 (3)
	214000						• Q4 W1 (3)
	214000	co4	co4	co4	co4	co4	co4
STATE PER/CCA	214900		• Q2 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	214900			• Q4 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	214900				• Q3 W1 (3)	W1 (3)	W1 (3)
	214900					• Q3 W1 (3)	W1 (3)
	214900						• Q1 W1 (3)
	214900	co2	co2	co2	co2	co2	co2
STATE PER/MGT	215000		• Q3 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	215000			• Q1 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	215000				• Q4 W1 (3)	W1 (3)	W1 (3)
	215000					• Q4 W1 (3)	W1 (3)
	215000						• Q2 W1 (3)
	215000	co4	co4	co4	co4	co4	co4
STATE PER/MGT/OS	215600	co4	co4	co4	co4	co4	co4
	215600	cv5	cv5	cv5	cv5	cv5	cv5
	215600	cv5	cv5	cv5	cv5	cv5	cv5
	215600	co2	• Q4 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	215600			• Q2 W1 (3)	W1 (3)	W1 (3)	W1 (3)

FIGURE IX-3

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DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE PER/MGT/OS	215600				* Q1 W1 (3)	W1 (3)	W1 (3)
	215600					* Q1 W1 (3)	W1 (3)
	215600						* Q3 W1 (3)
STATE PER/MGT/RMR	215800	co2	co2	co2	co2	co2	co2
	215800	co2	* Q1 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	215800			* Q3 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	215800				* Q2 W1 (3)	W1 (3)	W1 (3)
	215800					* Q2 W1 (3)	W1 (3)
	215800						* Q4 W1 (3)
STATE PER/ER/RET	216100	co3	co3	co3	co3	co3	co3
	216100	co4	co4	co4	co4	co4	co4
	216100	co2	* Q2 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	216100			* Q4 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	216100				* Q3 W1 (3)	W1 (3)	W1 (3)
	216100					* Q3 W1 (3)	W1 (3)
	216100						* Q1 W1 (3)
	216100	co2	co2	--	--	--	--
STATE A/OPR	220000	co4T	co4T	co4T	co4T	* Q4 C3T	C3T
	220000	co1T (2)	co1T (2)	co1T (2)	co1T (2)	co1T (2)	co1T (2)
STATE A/OPR/FMAS	220500	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)

FIGURE IX-3

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DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE:A/OPR/FMAS/ESC	220700	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	220700	co3	co3	co3	co3	co3	co3
STATE A/OPR/FMAS/GS	220900	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)
	220900	cv5	cv5	cv5	cv5	cv5	cv5
STATE A/OPR/FMAS/LS	221000	co4	• Q3 C3	C3	C3	C3	C3
	221000	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
STATE A/OPR/STP	221100	co4	--	--	--	--	--
	221100	co4	• Q4 cv5	cv5	cv5	cv5	cv5
	221100	co1 (22)	co1 (22)	co1 (22)	co1 (22)	co1 (22)	co1 (22)
	221100	cv5	cv5	cv5	cv5	cv5	cv5
STATE STP/S (WAREHS)	221110	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	221110	cv5	cv5	cv5	cv5	cv5	cv5
STATE A/OPR/STP/T	221130	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	221130		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	221130			• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	221130				• Q4 W1 (1)	W1 (1)	W1 (1)
	221130					• Q1 W1 (1)	W1 (1)
	221130						• Q2 W1 (1)
	221130	cv5	cv5	cv5	cv5	cv5	cv5
STATE A/OPR/STP/T/BA	221171	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	221171	cv5	cv5	cv5	cv5	cv5	cv5

FIGURE IX-3

DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE A/OPR/STP/T/MI	221182	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	221182	cv5	cv5	cv5	cv5	cv5	cv5
STATE A/OPR/STP/T/NY	221184	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	221184	cv5	cv5	cv5	cv5	cv5	cv5
STATE A/OPR/STP/T/SF	221190	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	221190	cv5	cv5	cv5	cv5	cv5	cv5
STATE A/OPR/FAIM	226000	co4T	co4T	co4T	co4T	co4T	co4T
STATE OPR/FAIM/DIR	226020	co4T	co4T	co4T	co4T	co4T	co4T
	226020	co1T (1)	co1T (1)	co1T (1)	co1T (1)	co1T (1)	co1T (1)
STATE A/SY	250100			* Q2 C6	C6	C6	C6
	250100			* Q3 C6T	C6T	C6T	C6T
	250100					* Q2 C5	C5
	250100					* Q3 C6	C6
	250100	co4T	co4T	co4T	co4T	co4T	co4T
	250100	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	250100		* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	250100	cv1	cv1	cv1	cv1	cv1	cv1
STATE A/SY/SAS	250104	co4T	co4T	co4T	co4T	co4T	co4T
STATE A/SY/ET	250107	co4	co4	co4	co4	co4	co4
	250107	co2	co2	co2	co2	co2	co2
	250107	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	250107		* Q3 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	250107			* Q4 W1 (2)	W1 (2)	W1 (2)	W1 (2)

FIGURE IX-3

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DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE A/SY/ET	250107				* Q1 W1 (2)	W1 (2)	W1 (2)
	250107					* Q4 W1 (2)	W1 (2)
	250107						* Q3 W1 (2)
STATE A/SY/FO	250400	co4	co4	co4	co4	co4	co4
	250400	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	250400		* Q4 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	250400			* Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	250400				* Q2 W1 (2)	W1 (2)	W1 (2)
	250400					* Q1 W1 (2)	W1 (2)
	250400						* Q4 W1 (2)
STATE A/SY/DO	250500	co4	co4	co4	co4	co4	co4
STATE A/SY/T	250600	co2	co2	co2	co2	co2	co2
	250600	cv5	cv5	cv5	cv5	cv5	cv5
	250600	cv3	cv3	cv3	cv3	cv3	cv3
	250600	co2T	co2T	* Q2 W1T (1)	W1T (1)	W1T (1)	W1T (1)
	250600				* Q3 W1T (1)	W1T (1)	W1T (1)
	250600					* Q2 W1T (1)	W1T (1)
	250600						* Q1 W1T (1)
	250600	co3	co3	co3	co3	co3	co3
STATE A/SY/CC	251000	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)

FIGURE IX-3

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SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE A/SY/CC	251000		* Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	251000			* Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	251000				* Q4 W1 (1)	W1 (1)	W1 (1)
	251000					* Q3 W1 (1)	W1 (1)
	251000						* Q2 W1 (1)
	251000	cv5	cv5	cv5	cv5	cv5	cv5
	251000	co2	co2	--	--	--	--
STATE A/SY/PSD	251600	co2	co2	co2	co2	co2	co2
	251600	co4	co4	co4	co4	co4	co4
	251600	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)
	251600		* Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	251600			* Q4 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	251600				* Q1 W1 (2)	W1 (2)	W1 (2)
	251600					* Q4 W1 (2)	W1 (2)
	251600						* Q3 W1 (2)
	251600	cv3	cv3	cv3	cv3	cv3	cv3
STATE A/SY/I/SFO	252000	co4	co4	co4	co4	co4	co4
	252000	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	252000		* Q3 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	252000			* Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)

FIGURE IX-3

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DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE A/SY/I/SFO	252000				• Q2 W1 (2)	W1 (2)	W1 (2)
	252000					• Q1 W1 (2)	W1 (2)
	252000						• Q4 W1 (2)
STATE A/SY/I/WFO	252100	co4	co4	co4	co4	co4	co4
STATE A/SY/I-BFO	252200	co2	co2	co2	co2	co2	co2
	252200	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	252200		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	252200			• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	252200				• Q3 W1 (1)	W1 (1)	W1 (1)
	252200					• Q2 W1 (1)	W1 (1)
	252200						• Q1 W1 (1)
STATE A/SY/I-CFO	252300	co4	co4	co4	co4	co4	co4
	252300	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	252300		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	252300			• Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	252300				• Q4 W1 (1)	W1 (1)	W1 (1)
	252300					• Q3 W1 (1)	W1 (1)
	252300						• Q2 W1 (1)
STATE A/SY/I/LAFO	252400	co4	co4	co4	co4	co4	co4

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FIGURE IX-3

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SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE A/SY/I/MFO	252500	co2	co2	co2	co2	co2	co2
STATE A/SY/I/NYFO	252600	co4	co4	co4	co4	co4	co4
STATE A/SY/I-DFO	252800	co2	co2	co2	co2	co2	co2
	252800	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	252800		• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	252800			• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	252800				• Q1 W1 (1)	W1 (1)	W1 (1)
	252800					• Q4 W1 (1)	W1 (1)
	252800						• Q3 W1 (1)
STATE A/SY/PFO	252900	co2	co2	co2	co2	co2	co2
	252900	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	252900		• Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	252900			• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	252900				• Q2 W1 (1)	W1 (1)	W1 (1)
	252900					• Q1 W1 (1)	W1 (1)
	252900						• Q4 W1 (1)
STATE SY/PRS/DP	253200	co4	co4	co4	co4	co4	co4
STATE DIP/SY (NEW)	25XXXX			• Q2 C5T	C5T	C5T	C5T
STATE M/FSI/DP	260260	co2	co2	co2	co2	co2	co2
	260260	co2	co2	co2	co2	co2	co2
	260260	co2	co2	co2	co2	co2	co2

FIGURE IX-3

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DOMESTIC SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE M/FSI/DP	260260	co1 (46)	co1 (46)	co1 (46)	co1 (46)	co1 (46)	co1 (46)
	260260		* Q4 W1 (52)	W1 (52)	W1 (52)	W1 (52)	W1 (52)
	260260			* Q3 W1 (4)	W1 (4)	W1 (4)	W1 (4)
	260260				* Q3 W1 (4)	W1 (4)	W1 (4)
	260260					* Q2 W1 (4)	W1 (4)
	260260						* Q1 W1 (4)
	260260	cv5	cv5	cv5	cv5	cv5	cv5
	260260	cv5	cv5	cv5	cv5	cv5	cv5
	260260	co3	co3	co3	co3	co3	co3
STATE A/OC	270100	co4T	* Q3 C3T	C3T	C3T	C3T	C3T
	270100	co3	--	--	--	--	--
STATE A/OC/SPP	270130	co4T	* Q4 C3T	C3T	C3T	C3T	C3T
STATE A/OC/PE	271500	co4T	co4T	* Q4 C3T	C3T	C3T	C3T
	271500	co1T (3)	co1T (3)	co1T (3)	co1T (3)	co1T (3)	co1T (3)
STATE A/OC/PE/TSE	271520	co4	co4	co4	co4	co4	co4
STATE A/OC/ML	271600	co4T	co4T	* Q1 C3T	C3T	C3T	C3T
	271600	co4T	co4T	co4T	* Q4 C3T	C3T	C3T
	271600	co4T	co4T	co4T	* Q1 C3T	C3T	C3T
	271600	co4T	co4T	co4T	co4T	* Q3 C3T	C3T
	271600	co4T	co4T	co4T	co4T	* Q4 C3T	C3T
	271600	co4T	co4T	co4T	co4T	co4T	* Q2 C4T
	271600	co4T	co4T	co4T	co4T	co4T	* Q3 C4T
	271600	co4T	co4T	co4T	co4T	co4T	* Q4 C3T

FIGURE IX-3

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE A/OC/ML/LO	271640		* Q3 C6	C6	C6	C6	C6
	271640	cv5	cv5	* Q2 C6	C6	C6	C6
STATE A/OC/TS/ML	274300	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	274300		* Q4 W1 (13)	W1 (13)	W1 (13)	W1 (13)	W1 (13)
	274300			* Q3 W1 (13)	W1 (13)	W1 (13)	W1 (13)
STATE CA: EX/SA	280210		(D)Q2 C5	C5	C5	C5	C5
	280210	co4	co4	co4	co4	* Q1 C5	C5
	280210	co4	co4	co4	co4	co4	--
	280210	co4	co4	co4	co4	co4	co4
	280210	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	280210		* Q3 W1 (10)	W1 (10)	W1 (10)	W1 (10)	W1 (10)
	280210	cv5	cv5	cv5	* Q2 C6	C6	C6
	280210	cv5	cv5	cv5	cv5	cv5	cv5
	280210	co3	co3	co3	--	--	--
	280210	co3	co3	co3	--	--	--
	280210	co2	co2	co2	--	--	--
	280210	co2	co2	co2	--	--	--
	280210	co2	co2	co2	--	--	--
ITP (FAIS DOMESTIC)	280299		* Q4 C5T	C5T	C5T	C5T	C5T
	280299			* Q1 C6T	C6T	C6T	C6T
	280299			* Q2 C3T	C3T	C3T	C3T
	280299			* Q3 C3T	C3T	C3T	C3T
	280299			* Q4 C5T	C5T	C5T	C5T
	280299			* Q1 C6T	C6T	C6T	C6T

FIGURE IX-3

DOMESTIC SITES: US DEPARTMENT OF STATE

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
ITP (FAIS DOMESTIC)	280299				• Q3 C3T	C3T	C3T
	280299				• Q4 C5T	C5T	C5T
	280299				• Q1 C5T	C5T	C5T
	280299				• Q2 C6T	C6T	C6T
	280299				• Q3 C6T	C6T	C6T
	280299					• Q2 C3T	C3T
	280299					• Q3 C3T	C3T
	280299					• Q4 C5T	C5T
	280299					• Q1 C5T	C5T
	280299					• Q2 C6T	C6T
	280299						• Q1 C3T
	280299						• Q2 C3T
	280299						• Q3 C5T
	280299						• Q4 C5T
	280299						• Q1 C6T

FIGURE IX-3

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07/31/86

DOMESTIC TARGET SYSTEMS (CUMULATIVE)

US DEPARTMENT OF STATE

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	223	342	414	475	540
C1	0	2	2	2	3	3
C2	0	0	0	0	0	0
C3	0	2	2	2	5	5
C4	0	1	1	1	1	1
C5	0	4	6	6	8	9
C6	0	3	6	9	10	10
SUB-TOTAL	0	235	359	434	502	568
TEMPEST						
W1T	0	2	28	33	38	43
C3T	0	3	7	12	18	21
C4T	0	3	4	5	5	8
C5T	0	3	7	9	12	14
C6T	0	0	3	6	7	10
SUB-TOTAL	0	11	49	65	80	96
TOTAL TARGET SYSTEMS	0	246	408	499	582	664

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FIGURE IX-3

DOMESTIC ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US DEPARTMENT OF STATE

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST							
W1		Q1	34	29	17	13	23
		Q2	51	29	23	17	11
		Q3	39	38	17	13	14
		Q4	99	23	15	18	17
	SUB-TOTAL		223	119	72	61	65
C1		Q1	0	0	0	1	0
		Q2	0	0	0	0	0
		Q3	1	0	0	0	0
		Q4	1	0	0	0	0
	SUB-TOTAL		2	0	0	1	0
C2		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C3		Q1	0	0	0	1	0
		Q2	0	0	0	1	0
		Q3	1	0	0	1	0
		Q4	1	0	0	0	0
	SUB-TOTAL		2	0	0	3	0
C4		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	1	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		1	0	0	0	0

FIGURE IX-3

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DOMESTIC ACQUISITIONS (NON-CUMULATIVE) 07/31/86

US DEPARTMENT OF STATE

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	1	2	0	1	0
	Q2	2	0	0	1	1
	Q3	1	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		4	2	0	2	1
C6	Q1	0	0	0	0	0
	Q2	0	2	2	0	0
	Q3	1	0	1	1	0
	Q4	2	1	0	0	0
SUB-TOTAL		3	3	3	1	0
TOTAL NON-TEMPEST ACQUISITIONS		235	124	75	68	66

FIGURE IX-3

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DOMESTIC ACQUISITIONS (NON-CUMULATIVE) 07/31/86

US DEPARTMENT OF STATE

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST							
W1T		Q1	2	11	1	3	3
		Q2	0	6	1	1	0
		Q3	0	7	1	1	1
		Q4	0	2	2	0	1
	SUB-TOTAL		2	26	5	5	5
C3T		Q1	0	1	1	0	1
		Q2	0	1	0	2	1
		Q3	2	1	2	2	0
		Q4	1	1	2	2	1
	SUB-TOTAL		3	4	5	6	3
C4T		Q1	0	0	0	0	0
		Q2	0	0	0	0	2
		Q3	2	0	1	0	1
		Q4	1	1	0	0	0
	SUB-TOTAL		3	1	1	0	3
C5T		Q1	0	0	1	1	0
		Q2	0	1	0	1	0
		Q3	2	2	0	0	1
		Q4	1	1	1	1	1
	SUB-TOTAL		3	4	2	3	2
C6T		Q1	0	2	1	0	1
		Q2	0	0	1	1	1
		Q3	0	1	1	0	1
		Q4	0	0	0	0	0
	SUB-TOTAL		0	3	3	1	3
TOTAL TEMPEST ACQUISITIONS			11	38	16	15	16
TOTAL ACQUISITIONS			246	162	91	83	82

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FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
BUENOS AIRES	310201	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	310201		• Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	310201			• Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	310201				• Q4 W1 (2)	W1 (2)	W1 (2)
	310201					• Q3 W1 (2)	W1 (2)
	310201	cv5	cv5	cv5	cv5	• Q4 C6	C6
NASSAU	310301	co4	co4	co4	co4	• Q1 C3	C3
LA PAZ	310401	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	310401		• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	310401			• Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	310401				• Q1 W1 (1)	W1 (1)	W1 (1)
	310401					• Q2 W1 (1)	W1 (1)
	310401						• Q2 W1 (1)
	310401	cv3	cv3	cv3	cv3	cv3	cv3
ANTIGUA	310500	co2	co2	co2	co2	• Q3 C1	C1
	310500	co2	co2	co2	co2	--	--
	310500	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	310500			• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	310500					• Q4 W1 (1)	W1 (1)
BRASILIA	310601		• Q3 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)

FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
BRASILIA	310601			• Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	310601				• Q2 W1 (2)	W1 (2)	W1 (2)
	310601					• Q1 W1 (2)	W1 (2)
	310601						• Q3 W1 (2)
	310601	cv5	cv5	cv5	cv5	• Q2 C6	C6
RIO DE JANEIRO	310607	co4	co4	co4	co4	• Q3 cv5	cv5
	310607	co4	co4	co4	co4	--	--
SAO PAULO	310612	co2	co2	co2	co2	co2	• Q4 C1
	310612	co2	co2	co2	co2	co2	--
GEORGETOWN	310701		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	310701			• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	310701					• Q4 W1 (1)	W1 (1)
	310701	co2	co2	co2	co2	co2	co2
SANTIAGO	310801	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	310801		• Q1 W1 (1)	W1 W1 (1)	W1 (1)	W1 (1)	(1)
	310801			• Q3 W1 (1)	W1 (1)	W1 W1 (1)	(1)
	310801				• Q3 W1 (1)	W1 W1 (1)	(1)
	310801				(	• Q1 W1 1) (	W1 1)
	310801					(	• Q1 W1 1)
	310801	cv5	cv5	cv5	cv5	cv5	cv5

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FIGURE IX-3

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FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
BELIZE CITY	310901	co2	co2	co2	co2	co2	• Q2 C1
	310901	co2	co2	co2	co2	co2	--
BOGOTA	311001	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	311001		• Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	311001			• Q4 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	311001				• Q4 W1 (2)	W1 (2)	W1 (2)
	311001	cv5	cv5	cv5	cv5	• Q2 C6	C6
BRIDGETOWN	311101	co4	co4	• Q1 C3	C3	C3	C3
	311101	co2	co2	--	--	--	--
	311101	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	311101		• Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	311101			• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	311101				• Q1 W1 (1)	W1 (1)	W1 (1)
	311101						• Q3 W1 (1)
SAN JOSE	311201	co4	co4	co4	• Q2 C3	C3	C3
	311201	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	311201		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	311201			• Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	311201					• Q3 W1 (1)	W1 (1)
HAVANA	311401	co2	co2	co2	• Q3 C5	C5	C5

FIGURE IX-3

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FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
SANTO DOMINGO	311601		• Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	311601			• Q4 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	311601				• Q4 W1 (2)	W1 (2)	W1 (2)
	311601					• Q4 W1 (2)	W1 (2)
	311601						• Q4 W1 (2)
	311601	cv5	cv5	cv5	cv5	cv5	cv5
	311601	cv5	cv5	cv5	cv5	cv5	cv5
QUITO	311801	co4	co4	co4	co4	co4	co4
GUAYAQUIL	311802	co3	co3	co3	• Q1 C1	C1	C1
SAN SALVADOR	312001	co4	• Q3 C5	C5	C5	C5	C5
GUATEMALA	312201	co4	co4	co4	● Q2 cv5	cv5	cv5
	312201	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	312201		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	312201			• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	312201				• Q3 W1 (1)	W1 (1)	W1 (1)
	312201					• Q1 W1 (1)	W1 (1)
	312201						• Q1 W1 (1)
SAINT GEORGES	312301	co2	co2	co2	co2	co2	co2
	312301	co2	co2	co2	co2	co2	co2
	312301	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	312301			(	• Q4 W1 1)	W1 (1)	W1 (1)

FIGURE IX-3

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SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
SAINT GEORGES	312301						• Q2 W1 (1)
PORT AU PRINCE	312401	co2	co2	co2	co2	co2	• Q3 C1
	312401	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	312401		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	312401			• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	312401					• Q2 W1 (1)	W1 (1)
	312401	cv4	cv4	cv4	cv4	cv4	cv4
TEGUCIGALPA	312601	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	312601		• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	312601			• Q3 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	312601				• Q1 W1 (1)	W1 (1)	W1 (1)
	312601						• Q4 W1 (1)
	312601	cv5	cv5	cv5	cv5	cv5	cv5
	312601	co2	co2	--	--	--	--
	312601	co2	co2	--	--	--	--
KINGSTON	312701	co4	co4	co4	co4	co4	• Q1 C3
	312701	co4	co4	co4	co4	co4	--
	312701	cv4	cv4	cv4	cv4	cv4	cv4
MEXICO CITY,D.F.	312801	co4	co4	co4	co4	co4	--
	312801	co4	co4	co4	--	--	--
	312801	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)

FIGURE IX-3

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FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
MEXICO CITY,D.F.	312801		* Q3 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	312801			* Q4 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	312801				* Q2 W1 (1)	W1 (1)	W1 (1)
	312801	cv5	cv5	cv5	* Q3 C6	C6	C6
	312801	cv5	cv5	cv5	cv5	cv5	cv5
CIUDAD JUAREZ	312802	cv5	cv5	cv5	cv5	cv5	cv5
GUADALAJARA	312803	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	312803	cv3	cv3	cv3	cv3	cv3	cv3
MONTERREY	312807	cv4	cv4	cv4	cv4	cv4	cv4
NUEVO LAREDO	312809	co2	co2	co2	* Q4 C1	C1	C1
TIJUANA	312812	cv4	cv4	cv4	cv4	cv4	cv4
	312812	co3	co3	co3	--	--	--
MAZATLAN	312814	co2	co2	co2	* Q1 C1	C1	C1
RAMC MEXICO-REG ADMI	312864		* Q4 C5	C5	C5	C5	C5
	312864	co4	co4	co4	co4	co4	co4
	312864	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)
	312864	cv2	cv2	cv2	cv2	cv2	cv2
MANAGUA	313001	co2	co2	co2	co2	* Q3 C1	C1
PANAMA	313201	co3	co3	co3	--	--	--
	313201	co4	co4	co4	* Q2 C3	C3	C3
	313201	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	313201		* Q1 W1 (1)	W1 (1)	W1 W1 (1)	W1 (1)	(1)
	313201			* Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)

FIGURE IX 3

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
PANAMA	313201	cv3	cv3	cv3	cv3	cv3	cv3
PANAMA (STATE SY)	313202	co3	co3	co3	co3	co3	co3
ASUNCION	313401	co4	co4	co4	co4	co4	* Q2 C3
	313401	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	313401			* Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	313401						* Q3 W1 (1)
LIMA	313601		* Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	313601	co3	co3	co3	co3	co3	co3
	313601	co3	co3	co3	co3	co3	co3
	313601	cv5	cv5	cv5	cv5	cv5	cv5
PARAMARIBO	313701		* Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	313701	co2	co2	co2	* Q3 C1	C1	C1
MONTEVIDEO	313801	co4	co4	co4	co4	* Q4 C3	C3
	313801	co2	co2	co2	co2	--	--
CARACAS	314001	co4	co4	co4	--	--	--
	314001	cv5	cv5	cv5	* Q4 C6	C6	C6
	314001	cv5	cv5	cv5	--	--	--
MARACAIBO	314002	co2	co2	co2	co2	co2	* Q4 C1
PORT OF SPAIN	314201	co2	co2	co2	* Q1 C3	C3	C3
VIENNA	320601	co2	co2	co2	--	--	--
	320601	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	320601	cv5	cv5	cv5	* Q2 C6	C6	C6
STATE IO/VIENNA	320602	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)

FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STATE IO/VIENNA	320602		* Q4 W1 (11)	W1 (11)	W1 (11)	W1 (11)	W1 (11)
	320602	cv1	cv1	cv1	cv1	cv1	cv1
	320602	cv1	cv1	@ Q3 cv5	cv5	cv5	cv5
BRUSSELS	321201	co2	co2	co2	--	--	--
	321201	co2	co2	co2	co2	co2	--
	321201	co1 (15)	co1 (15)	co1 (15)	co1 (15)	co1 (15)	co1 (15)
	321201	cv5	cv5	cv5	* Q3 C6	C6	C6
ANTWERP	321202	co2	co2	co2	* Q4 C4	C4	C4
	321202	co2	co2	co2	--	--	--
BRUSSELS -USEC	321203	co2	co2	co2	co2	--	--
	321203	co2	co2	co2	@ Q1 cv5	cv5	cv5
	321203	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
USNATO -MISSION/BRUS	321213	co4T	co4T	co4T	co4T	co4T	co4T
ANTWERP (OPR/STP/T)	321250	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	321250	cv5	cv5	cv5	cv5	cv5	cv5
HAMILTON	321491	co2	co2	co2	* Q2 C4	C4	C4
VALLETTA	321601	co2	co2	co2	* Q3 C4	C4	C4
	321601	co2	co2	co2	--	--	--
NICOSIA	321701	co4	co4	co4	co4	* Q1 C3	C3
	321701	co4	co4	co4	co4	* Q2 C3	C3
ATHENS	321801	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	321801	cv5	cv5	cv5	* Q4 C6	C6	C6
THESSALONIKI	321802	co3	co3	--	--	--	--
	321802	co2	co2	* Q4 C2	C2	C2	C2

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FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
SOFIA	322501	co4	co4	co4	co4	co4	co4
	322501	co4	co4	co4	• Q1 C3	C3	C3
STATE IO/MONTREAL	322668	co2	• Q1 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
OTTAWA	322681	co2	co2	co2	co2	co2	co2
	322681	co3	co3	co3	co3	co3	co3
	322681	co4	co4	co4	co4	co4	co4
	322681	co4	co4	co4	co4	co4	co4
	322681	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	322681	cv5	cv5	cv5	cv5	cv5	cv5
CALGARY	322682	co2	co2	• Q1 C1	C1	C1	C1
HALIFAX	322684	co2	co2	• Q2 C3	C3	C3	C3
MONTREAL	322685	cv4	cv4	cv4	cv4	cv4	cv4
QUEBEC	322686	co2	co2	• Q3 C4	C4	C4	C4
TORONTO	322689	cv4	cv4	cv4	cv4	cv4	cv4
VANCOUVER	322692	cv3	cv3	cv3	cv3	cv3	cv3
WINNIPEG	322694	co2	co2	co2	co2	co2	co2
PRAGUE	322801	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	322801	cv2	cv2	cv2	• Q2 C3	C3	C3
COPENHAGEN	323001	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	323001		• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	323001	cv5	cv5	cv5	cv5	cv5	cv5
LONDON	323201	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	323201	cv5	cv5	cv5	cv5	cv5	cv5
	323201	cv5	cv5	• Q4 C6	C6	C6	C6

FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
LONDON	323201	co2	co2	--	--	--	--
BELFAST	323202	co2	co2	co2	--	--	--
	323202	co2	co2	co2	* Q3 C3	C3	C3
EDINBURGH	323205	co2	co2	co2	co2	co2	co2
	323205	co2	co2	co2	co2	co2	co2
HELSINKI	323401	co3	co3	co3	co3	co3	* Q1 C1
	323401	co3	co3	co3	co3	co3	co3
PARIS	323601	co2	co2	co2	co2	co2	co2
	323601	co2	co2	co2	co2	co2	co2
	323601	co3	co3	co3	co3	co3	co3
	323601	co4	co4	co4	co4	co4	co4
	323601	co4	co4	co4	co4	co4	co4
	323601	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (2)
	323601	cv5	cv5	* Q1 C6	C6	C6	C6
	323601	cv5	cv5	cv5	cv5	cv5	cv5
	323601	cv4	cv4	cv4	cv4	cv4	cv4
	323601	co3	co3	--	--	--	--
BORDEAUX	323602	co2	co2	co2	co2	co2	co2
	323602	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
LYON	323604	co2	co2	co2	co2	co2	co2
	323604	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
MARSEILLE	323605	co4	co4	co4	co4	co4	co4
	323605	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
NICE	323606	co2	co2	co2	co2	co2	co2
STRASBOURG	323607	co2	co2	co2	co2	co2	co2

FIGURE IX-3

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FOREIGN SITES: US DEPARTMENT OF STATE

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
PARIS -OECD	323614	co4	co4	@ Q2 cv5	cv5	cv5	cv5
	323614	co3	co3	co3	co3	co3	co3
RAMC PARIS - RAMC	323664		* Q3 C5	C5	C5	C5	C5
	323664	co3	co3	co3	co3	co3	co3
	323664	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	323664	cv5	cv5	cv5	cv5	cv5	cv5
	323664	cv2	cv2	cv2	cv2	cv2	cv2
BONN	324001	co2	* Q4 C3	C3	C3	C3	C3
	324001	co3	co3	co3	co3	co3	co3
	324001	co4	co4	co4	co4	co4	co4
	324001	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)
	324001	cv5	* Q3 C6	C6	C6	C6	C6
	324001	cv5	cv5	cv5	* Q4 C6	C6	C6
USBERLIN -USMISSION	324002	co2	co2	co2	co2	co2	co2
	324002	co1 (15)	co1 (15)	co1 (15)	co1 (15)	co1 (15)	co1 (15)
	324002	cv5	cv5	cv5	cv5	cv5	cv5
BREMEN	324003	co2	co2	co2	co2	co2	co2
DUSSELDORF	324004	co2	co2	co2	co2	co2	co2
	324004	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
FRANKFURT	324005	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	324005	cv5	cv5	cv5	cv5	cv5	cv5
	324005	cv3	cv3	cv3	cv3	cv3	cv3
HAMBURG	324006	co4	co4	co4	co4	co4	co4
MUNICH	324007	co4	@ Q4 cv5	cv5	cv5	cv5	cv5

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FIGURE IX-3

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FOREIGN SITES: US DEPARTMENT OF STATE

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
STUTTGART	324008	co4	co4	co4	@ Q1 cv5	cv5	cv5
BERLIN	324301	co4	co4	co4	co4	co4	co4
	324301	co4	co4	co4	co4	co4	co4
BUDAPEST	324401	co4	co4	co4	co4	co4	co4
	324401	co4	co4	co4	co4	co4	co4
REYKJAVIK	324601	co2	co2	co2	co2	co2	co2
	324601	co4	co4	co4	co4	co4	co4
	324601	co4	co4	co4	co4	co4	co4
DUBLIN	324801	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	324801	cv3	cv3	cv3	cv3	cv3	cv3
STATE IO/ROME	325000	co3	* Q3 C3	C3	C3	C3	C3
ROME	325001	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	325001	cv5	cv5	cv5	* Q2 C6	C6	C6
	325001	co3	co3	co3	--	--	--
	325001	co2	co2	co2	--	--	--
FLORENCE	325002	co2	co2	co2	co2	co2	co2
GENOA	325003	co2	co2	co2	co2	co2	co2
MILAN	325004	co4	co4	co4	co4	co4	co4
NAPLES	325005	co2	co2	co2	@ Q3 cv5	cv5	cv5
PALERMO	325006	co2	co2	co2	co2	co2	co2
TRIESTE	325007	co2	co2	co2	co2	co2	co2
TURIN	325008	co2	co2	co2	co2	co2	co2
VATICAN AFFAIRS OFFI	325021	co2	co2	co2	co2	co2	co2
	325021	co2	co2	co2	co2	co2	co2
	325021	co3	co3	co3	co3	co3	co3
	325021	co2	co2	co2	co2	co2	co2

FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
LUXEMBOURG	325201	co2	co2	co2	co2	co2	co2
	325201	co2	co2	co2	co2	co2	co2
THE HAGUE	325601	co3	co3	co3	co3	co3	co3
	325601	cv5	cv5	cv5	cv5	cv5	cv5
	325601	co2	co2	co2	co2	co2	co2
AMSTERDAM	325602	co2	co2	co2	co2	co2	co2
ROTTERDAM	325603	co2	co2	co2	co2	co2	co2
OSLO	326201			* Q3 C3	C3	C3	C3
	326201	co4	co4	co4	co4	co4	co4
	326201	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
WARSAW	326401	co4	co4	co4	co4	co4	* Q2 C3
	326401	co4	co4	co4	co4	co4	co4
POZNAN	326402	co2	co2	co2	co2	co2	co2
KRAKOW	326403	co2	co2	co2	co2	co2	* Q3 C1
LISBON	326601			* Q4 C3	C3	C3	C3
	326601	co4	co4	co4	co4	co4	co4
	326601	co4	co4	co4	co4	co4	co4
BUCHAREST	326801	co3	co3	co3	co3	co3	co3
	326801	co2	co2	co2	co2	co2	co2
	326801	co2	co2	co2	co2	co2	co2
	326801	co2	co2	co2	co2	co2	co2
MADRID	327001	co3	co3	co3	co3	* Q3 C3	C3
	327001	co4	co4	co4	co4	co4	co4
	327001	co4	co4	co4	co4	co4	co4
	327001	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
BARCELONA	327002	co2	* Q4 C4	C4	C4	C4	C4

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FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
BARCELONA	327002	co3	--	--	--	--	--
BILBAO	327003	co2	* Q3 C2	C2	C2	C2	C2
SEVILLE	327004	co2	* Q4 C2	C2	C2	C2	C2
STOCKHOLM	327401	co4	co4	co4	co4	co4	co4
	327401	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	327401	cv5	cv5	cv5	cv5	cv5	cv5
GOTEBORG	327402	co2	co2	co2	co2	co2	co2
BERN	327601	co4	co4	co4	co4	co4	co4
	327601	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
STATE RP/GENEVA	327602		* Q1 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	327602			* Q1 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	327602				* Q4 W1 (3)	W1 (3)	W1 (3)
	327602					* Q4 W1 (3)	W1 (3)
	327602						* Q4 W1 (3)
	327602	cv3	cv3	* Q2 C5	C5	C5	C5
GENEVA	327603	co4	co4	co4	co4	co4	co4
ZURICH	327604	co3	co3	co3	co3	co3	co3
GENEVA -USMISSION, S	327620	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
GENEVA -USMISSION	327667	co2	co2	co2	co2	co2	co2
	327667	co1 (13)	co1 (13)	co1 (13)	co1 (13)	co1 (13)	co1 (13)
	327667	co3	co3	co3	co3	co3	co3
	327667	co2	co2	co2	co2	co2	co2

FIGURE IX-3

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SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
ANKARA	328201	co4	co4	* Q3 cv5	cv5	cv5	cv5
	328201	co4	co4	--	--	--	--
	328201	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)
	328201	co2	co2	co2	co2	co2	co2
	328201	co2	co2	co2	co2	co2	co2
	328201	co2	co2	co2	co2	co2	co2
	328201	co2	co2	co2	co2	co2	co2
	328201	co2	co2	co2	co2	co2	co2
ISTANBUL	328202	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	328202	co2	* Q3 C2	C2	C2	C2	C2
	328202	co2	--	--	--	--	--
MOSCOW	328401	co2	co2	* Q4 C5	C5	C5	C5
	328401	co2	co2	--	--	--	--
	328401	co4	co4	co4	co4	co4	co4
	328401	co4	co4	co4	co4	co4	co4
	328401	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	328401	co2	co2	--	--	--	--
	328401	co2	co2	--	--	--	--
	328401	co2	co2	--	--	--	--
	328401	co2	co2	--	--	--	--
BELGRADE	328601	co1 (10)	co1 (10)	co1 (10)	co1 (10)	co1 (10)	co1 (10)
	328601	cv5	cv5	cv5	cv5	cv5	cv5
	328601	co3	co3	co3	co3	co3	co3
AIT TAIPEI	330230	co4	co4	co4	co4	co4	co4
	330230	co4	co4	co4	* Q1 C3	C3	C3

FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AIT TAIPEI	330230	co4	co4	co4	co4	• Q1 C1	C1
	330230	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	330230	cv5	cv5	cv5	cv5	cv5	cv5
HONG KONG	330401	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	330401		• Q4 W1 (2)	W1 W1 (2)	W1 (2)	W1 (2)	(2)
	330401			• Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	330401				• Q2 W1 (2)	W1 (2)	W1 (2)
	330401					• Q2 W1 (2)	W1 (2)
	330401						• Q1 W1 (2)
	330401	cv5	cv5	cv5	cv5	cv5	cv5
	330401	co3	co3	• Q2 C1	C1	C1	C1
BEIJING PEOPLE'S REP	330501	co4	co4	co4	co4	co4	co4
	330501	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	330501	cv5	cv5	cv5	cv5	cv5	cv5
GUANGZHOU	330502	co3	co3	co3	co3	co3	co3
	330502	cv5	cv5	cv5	cv5	cv5	cv5
SHANGHAI PEOPLE'S RE	330503	co3	co3	• Q3 C5	C5	C5	C5
YAP DIST	330504	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
JAKARTA	330601	co2	co2	co2	--	--	--
	330601	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	330601		• Q1 W1 (2)	W1 W1 (2)	W1 (2)	W1 (2)	(2)

FIGURE IX-3

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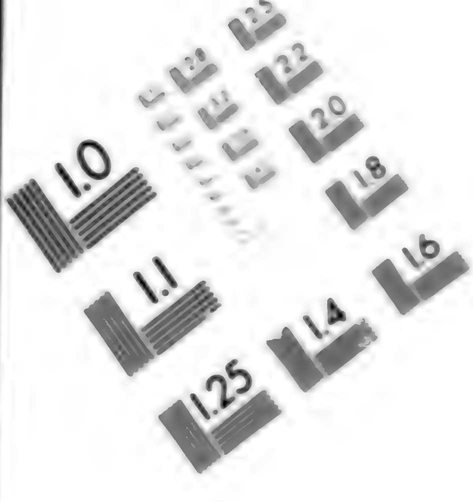

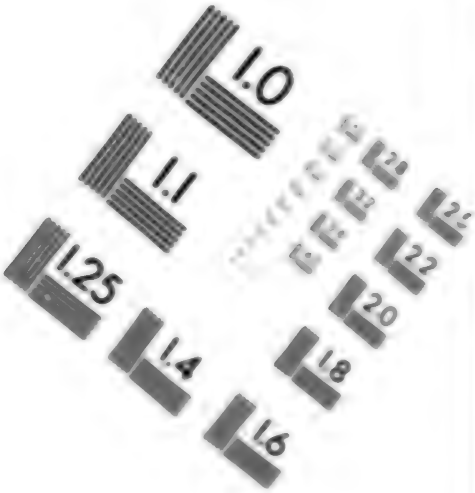

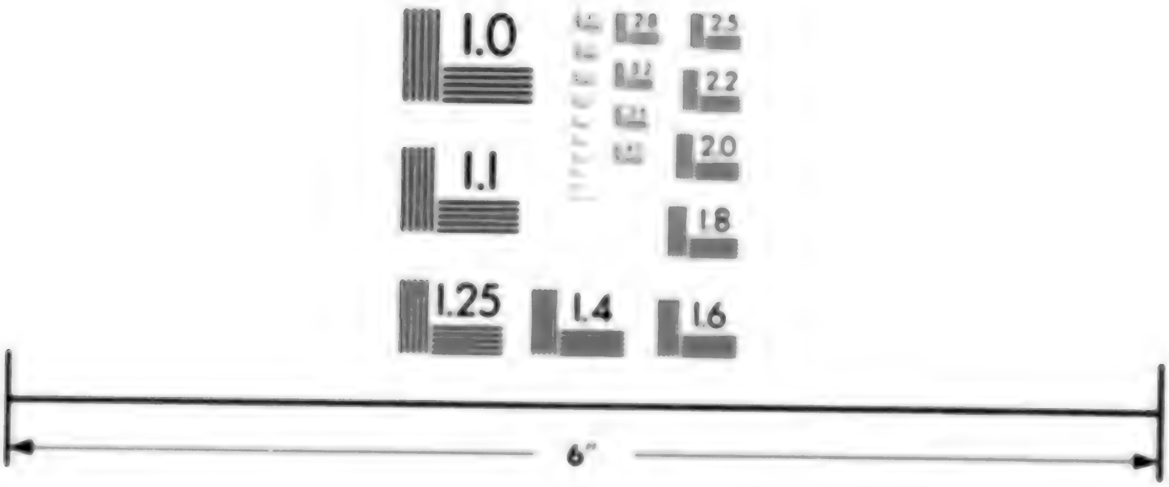

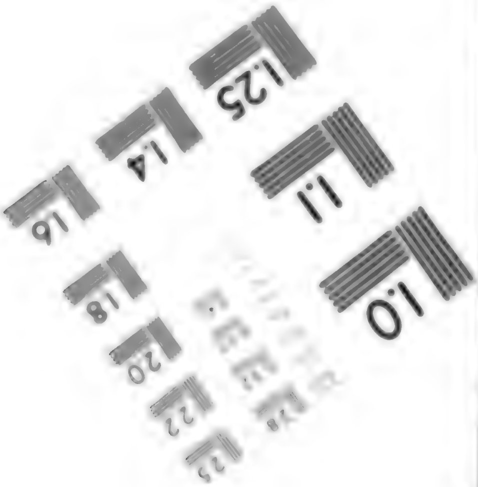

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
JAKARTA	330601	cv5	cv5	cv5	cv5	cv5	cv5
	330601	cv5	cv5	cv5	• Q3 C6	C6	C6
CANBERRA	330701	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)
	330701	cv5	cv5	cv5	• Q4 C6	C6	C6
BRISBANE	330703	co4	co4	• Q4 C3	C3	C3	C3
MELBOURNE	330704	co4	co4	co4	● Q1 cv5	cv5	cv5
PERTH	330705	co2	co2	co2	• Q2 C2	C2	C2
SYDNEY	330706	co4	• Q3 C5	C5	C5	C5	C5
TOKYO	330801	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)
	330801	cv5	cv5	cv5	cv5	• Q3 C6	C6
	330801	cv5	cv5	cv5	• Q3 C6	C6	C6
	330801	co3	co3	co3	--	--	--
	330801	co2	co2	co2	--	--	--
FUKUOKA	330802	co2	co2	co2	co2	● Q4 cv5	cv5
	330802	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	330802		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
OSAKA KOBE	330803	cv1	cv1	cv1	cv1	cv1	cv1
	330803	co2	co2	co2	● Q4 cv5	cv5	cv5
SAPPORO	330805	co3	co3	• Q1 C1	C1	C1	C1
NAHA	330809	co2	• Q3 C1	C1	C1	C1	C1
	330809	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	330809		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	330809			• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)

FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
SEOUL	331001	co2	• Q3 C3	C3	C3	C3	C3
	331001	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	331001	cv5	cv5	• Q3 C6	C6	C6	C6
	331001	cv5	cv5	cv5	• Q1 C6	C6	C6
SUVA	331201	co4	co4	• Q4 C3	C3	C3	C3
	331201	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	331201		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	331201		(	• Q1 W1 1)	W1 (1)	W1 (1)	W1 (1)
WELLINGTON	331301	co4	co4	co4	--	--	--
	331301	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	331301		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	331301		(	• Q2 W1 1)	W1 (1)	W1 (1)	W1 (1)
	331301	cv3	cv3	cv3	• Q2 C5	C5	C5
AUCKLAND	331302	co3	co3	co3	• Q3 cv3	cv3	cv3
	331302	co2	co2	co2	--	--	--
MANILA	331401	co3	co3	co3	co3	co3	co3
	331401	co4	co4	• Q3 C3	C3	C3	C3
	331401	co1 (10)	co1 (10)	co1 (10)	co1 (10)	co1 (10)	co1 (10)
	331401		• Q2 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	331401	cv5	cv5	cv5	• Q4 C6	C6	C6
	331401	cv5	cv5	• Q4 C6	C6	C6	C6
	331401	cv2	cv2	• Q1 cv5	cv5	cv5	cv5

FIGURE IX-3

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SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
MANILA	331401	co3	co3	--	--	--	--
RP/MANILA	331402		• Q3 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	331402			• Q2 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	331402				• Q1 W1 (3)	W1 (3)	W1 (3)
	331402					• Q1 W1 (3)	W1 (3)
	331402						• Q2 W1 (3)
	331402	cv5	cv5	cv5	cv5	cv5	cv5
STATE RP/BANGKOK	331600	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	331600		• Q4 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	331600			• Q3 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	331600	cv5	cv5	cv5	cv5	cv5	cv5
	331600	cv5	cv5	cv5	cv5	cv5	cv5
	331600	cv3	cv3	• Q4 C5	C5	C5	C5
BANGKOK	331601	co4	co4	co4	• Q2 C6	C6	C6
	331601	co1 (9)	co1 (9)	co1 (9)	co1 (9)	co1 (9)	co1 (9)
	331601		• Q1 W1 (4)	W1 (4)	W1 (4)	W1 (4)	W1 (4)
	331601		(	• Q1 W1 4)	W1 (4)	W1 (4)	W1 (4)
	331601	cv5	cv5	cv5	cv5	cv5	cv5
UDORN	331603	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	331603		• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)

FIGURE IX-3

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
UDORN	331603			* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	331603				* Q3 W1 (1)	W1 (1)	W1 (1)
	331603					* Q2 W1 (1)	W1 (1)
	331603						* Q3 W1 (1)
SONGKHLA	331604	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	331604		* Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	331604			* Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	331604				* Q4 W1 (1)	W1 (1)	W1 (1)
	331604					* Q3 W1 (1)	W1 (1)
	331604						* Q4 W1 (1)
RAMC BANGKOK-REG ADM	331664		* Q4 C5	C5	C5	C5	C5
	331664	co3	co3	co3	co3	co3	co3
	331664	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	331664	cv5	cv5	cv5	cv5	cv5	cv5
	331664	cv2	cv2	cv2	cv2	cv2	cv2
SINGAPORE	331801	cv5	cv5	cv5	cv5	cv5	cv5
RP/SINGAPORE	331802			* Q4 C3	C3	C3	C3
	331802		* Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
KUALA LUMPUR	331901	co4	co4	co4	* Q1 C3	C3	C3
	331901	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)

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FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
KUALA LUMPUR	331901		• Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	331901			• Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	331901	cv5	cv5	cv5	cv5	cv5	cv5
BANDAR SERI BEGAWAN	332401		• Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	332401			• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	332401	co2	co2	• Q3 C1	C1	C1	C1
PORT MORESBY	332601		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	332601			• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	332601				• Q2 W1 (1)	W1 (1)	W1 (1)
	332601	co2	co2	co2	• Q3 C3	C3	C3
	332601	co2	co2	co2	--	--	--
RANGOON	333101	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	333101	co3	• Q3 C3	C3	C3	C3	C3
KABUL	340401	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	340401		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	340401	co3	• Q3 C1	C1	C1	C1	C1
ALGIERS	340501	co4	co4	co4	co4	co4	co4
	340501	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
MANAMA	340801	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	340801	co3	co3	co3	co3	co3	co3
DHAKA	340901	co4	co4	co4	co4	co4	co4

FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
DHAKA	340901	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	340901		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	340901			• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	340901				• Q4 W1 (1)	W1 (1)	W1 (1)
	340901					• Q4 W1 (1)	W1 (1)
	340901						• Q1 W1 (1)
	340901	co3	co3	co3	co3	co3	co3
COLOMBO	341201	co4	co4	co4	co4	co4	co4
	341201	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
CAIRO	341601	co2	co2	co2	co2	co2	co2
	341601	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	341601		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	341601			• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	341601			(	• Q1 W1 1)	W1 (1)	W1 (1)
	341601				(	• Q1 W1 1)	W1 (1)
	341601					(	• Q2 W1 1)
	341601	cv5	• Q3 C6	C6	C6	C6	C6
ALEXANDRIA	341602		● Q4 cv5	cv5	cv5	cv5	cv5
	341602	co2	co2	co2	co2	co2	co2
	341602	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)

FIGURE IX-3

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SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NEW DELHI	342801	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)
	342801	cv5	• Q3 C6	C6	C6	C6	C6
BOMBAY	342802	cv4	cv4	cv4	cv4	cv4	cv4
CALCUTTA	342803		• Q4 cv5	cv5	cv5	cv5	cv5
	342803	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
MADRAS	342804				• Q2 C1	C1	C1
	342804	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	342804		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	342804			• Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)
BAGHDAD	343201				• Q3 C3	C3	C3
	343201	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
TEL AVIV	343801	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	343801	cv5	cv5	cv5	cv5	cv5	cv5
JERUSALEM	343803			• Q4 C3	C3	C3	C3
	343803	co4	co4	co4	co4	co4	• Q3 C3
	343803	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	343803	co2	co2	co2	co2	co2	co2
AMMAN	344001	co4	co4	• Q1 C5	C5	C5	C5
	344001	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
TAIZ	344101	co4	co4	co4	co4	co4	co4
	344101	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
SANAA	344102	co4	co4	co4	co4	co4	co4

FIGURE IX-3

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
SANAA	344102	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	344102			* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	344102					* Q2 W1 (1)	W1 (1)
	344102	co3	co3	co3	co3	co3	co3
KUWAIT	344501	co4	co4	* Q3 C5	C5	C5	C5
	344501	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
RABAT	345601	co4	co4	* Q4 C5	C5	C5	C5
	345601	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
CASABLANCA	345602				* Q4 C1	C1	C1
	345602	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
KATHMANDU	346001	co4	co4	co4	co4	co4	co4
ISLAMABAD	346201	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)
	346201	cv5	cv5	cv5	cv5	cv5	cv5
LAHORE	346202				* Q1 C3	C3	C3
	346202	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
PESHAWAR	346203				* Q2 C1	C1	C1
	346203	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
KARACHI	346205	co4	co4	co4	co4	co4	co4
MUSCAT	346301	co4	co4	co4	co4	co4	co4
	346301	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
DOHA	346401	co4	co4	co4	co4	co4	co4
	346401	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)

FIGURE IX-3

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SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
DOHA	346401			* Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	346401					* Q3 W1 (1)	W1 (1)
RIYADH	347001	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	347001	cv5	cv5	cv5	cv5	cv5	cv5
DHAHRAN	347002	co4	co4	co4	co4	co4	co4
	347002	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
JEDDAH	347003	cv3	cv3	cv3	cv3	cv3	cv3
DAMASCUS	347601	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	347601	co3	co3	co3	co3	co3	co3
	347601	co2	co2	co2	* Q3 C3	C3	C3
TUNIS	348001	co4	co4	co4	co4	co4	co4
	348001	co4	co4	co4	co4	co4	co4
	348001	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
AB. DHABI	348301	co4	co4	co4	co4	co4	co4
	348301	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
DJIBOUTI	350401	co2	co2	--	--	--	--
	350401	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	350401		* Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	350401			* Q2 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	350401				* Q4 W1 (1)	W1 (1)	W1 (1)
	350401					* Q4 W1 (2)	W1 (2)

FIGURE IX-3

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
DJIBOUTI	350401						• Q4 W1 (2)
MASERU	350701	co2	co2	co2	--	--	--
	350701	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	350701		• Q3 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	350701			• Q3 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	350701				• Q1 W1 (3)	W1 (3)	W1 (3)
	350701					• Q1 W1 (1)	W1 (1)
	350701						• Q1 W1 (2)
KINSHASA	350801	co2	co2	co2	--	--	--
	350801	co1 (12)	co1 (12)	co1 (12)	co1 (12)	co1 (12)	co1 (12)
	350801		• Q4 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	350801			• Q4 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	350801				• Q2 W1 (10)	W1 (10)	W1 (10)
	350801	cv5	cv5	cv5	cv5	cv5	cv5
LUBUMBASHI	350802	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	350802				• Q3 W1 (4)	W1 (4)	W1 (4)
	350802					• Q2 W1 (2)	W1 (2)
MBABANE	350901	co4	• Q3 C2	C2	C2	C2	C2
	350901	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
MBABANE	350901		* Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	350901			* Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	350901				* Q4 W1 (1)	W1 (1)	W1 (1)
	350901					* Q3 W1 (1)	W1 (1)
	350901						* Q2 W1 (1)
YAOUNDE	351001	co2	co2	co2	--	--	--
	351001	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)
	351001			* Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	351001				* Q1 W1 (4)	W1 (4)	W1 (4)
	351001					* Q4 W1 (2)	W1 (2)
	351001						* Q3 W1 (2)
DOUALA	351002	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	351002		* Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	351002			* Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	351002				* Q2 W1 (1)	W1 (1)	W1 (1)
	351002					* Q1 W1 (1)	W1 (1)
	351002						* Q4 W1 (1)
GABARONE	351101	co2	--	--	--	--	--
	351101	co2	--	--	--	--	--

FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
GABARONE	351101	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	351101		• Q2 W1 (6)	W1 (6)	W1 (6)	W1 (6)	W1 (6)
	351101				• Q3 W1 (2)	W1 (2)	W1 (2)
	351101						• Q1 W1 (2)
BANGUI	351201	co2	co2	co2	--	--	--
	351201	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	351201		• Q3 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	351201			• Q4 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	351201				• Q4 W1 (4)	W1 (4)	W1 (4)
	351201					• Q2 W1 (2)	W1 (2)
	351201						• Q2 W1 (2)
PRAIA	351401	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	351401		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	351401			• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	351401				• Q1 W1 (1)	W1 (1)	W1 (1)
	351401					• Q3 W1 (1)	W1 (1)
	351401						• Q3 W1 (1)
N'DJAMENA	351501	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)

FIGURE IX-3

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FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
N'DJAMENA	351501			• Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	351501				• Q2 W1 (1)	W1 (1)	W1 (1)
COTONOU	351801	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	351801		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	351801			• Q3 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	351801				• Q3 W1 (2)	W1 (2)	W1 (2)
ADDIS ABABA	352001	co1 (8)	co1 (8)	co1 (8)	co1 (8)	co1 (8)	co1 (8)
	352001		• Q2 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	352001			• Q4 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	352001				• Q4 W1 (3)	W1 (3)	W1 (3)
	352001					• Q4 W1 (1)	W1 (1)
	352001						• Q4 W1 (1)
BRAZZAVILLE	352101	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	352101		• Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
DAKAR	352201	co4	co4	• Q1 C3	C3	C3	C3
	352201	co4	co4	• Q2 C3	C3	C3	C3
LIBREVILLE	352301	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)
	352301				• Q1 W1 (2)	W1 (2)	W1 (2)
	352301					• Q1 W1 (2)	W1 (2)

FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
LIBREVILLE	352301						* Q1 W1 (2)
ACCRA	352401	co2	co2	co2	--	--	--
	352401	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	352401		* Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	352401			* Q3 W1 (5)	W1 (5)	W1 (5)	W1 (5)
	352401				* Q2 W1 (5)	W1 (5)	W1 (5)
	352401					* Q2 W1 (1)	W1 (1)
BISSAU	352701		* Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
CONAKRY	352801	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)
	352801		* Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	352801				* Q3 W1 (2)	W1 (2)	W1 (2)
	352801						* Q2 W1 (2)
ABIDJAN	353001	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	353001	cv5	cv5	cv5	* Q4 C6	C6	C6
	353001	cv3	cv3	cv3	cv3	cv3	cv3
NAIROBI	354201	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	354201	cv5	cv5	cv5	* Q1 C6	C6	C6
	354201	cv3	cv3	cv3	cv3	cv3	cv3
BUJUMBURA	354301	co2	co2	--	--	--	--
	354301	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)

FIGURE IX-3

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FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
BUJUMBURA	354301			* Q4 W1 (4)	W1 (4)	W1 (4)	W1 (4)
	354301					* Q3 W1 (2)	W1 (2)
	354301						* Q3 W1 (2)
KIGALI	354401	co2	co2	--	--	--	--
	354401	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	354401		* Q3 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	354401			* Q1 W1 (6)	W1 (6)	W1 (6)	W1 (6)
	354401					* Q4 W1 (2)	W1 (2)
	354401						* Q4 W1 (2)
MONROVIA	354801	co2	co2	co2	--	--	--
	354801	co2	co2	co2	co2	--	--
	354801	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	354801	cv5	cv5	cv5	cv5	cv5	cv5
ANTANNARIVO	355401	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	355401		* Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	355401			* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	355401				* Q2 W1 (1)	W1 (1)	W1 (1)
	355401					* Q1 W1 (1)	W1 (1)
	355401						* Q1 W1 (1)

FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
BAMAKO	355501	co2	co2	co2	--	--	--
	355501	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	355501		* Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	355501			* Q3 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	355501				* Q3 W1 (6)	W1 (6)	W1 (6)
	355501					* Q2 W1 (2)	W1 (2)
	355501						* Q2 W1 (2)
NOUAKCHOTT	355701	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	355701		* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	355701			* Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)
MAPUTO	355801	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)	co1 (7)
	355801		* Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	355801			* Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	355801				* Q4 W1 (1)	W1 (1)	W1 (1)
	355801					* Q3 W1 (1)	W1 (1)
	355801						* Q3 W1 (1)
NIAMEY	355901	co2	co2	co2	--	--	--
	355901	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)
	355901		* Q4 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)

FIGURE IX-3

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FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NIAMEY	355901				* Q1 W1 (3)	W1 (3)	W1 (3)
	355901					* Q4 W1 (2)	W1 (2)
	355901						* Q4 W1 (2)
LAGOS	356001	co2	co2	co2	co2	co2	co2
	356001	co2	co2	co2	co2	co2	co2
	356001	co2	co2	co2	co2	co2	co2
	356001	co1 (8)	co1 (8)	co1 (8)	co1 (8)	co1 (8)	co1 (8)
	356001	cv5	cv5	cv5	cv5	cv5	cv5
KADUNA	356002	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	356002		* Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	356002			* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	356002				* Q2 W1 (1)	W1 (1)	W1 (1)
	356002					* Q1 W1 (1)	W1 (1)
	356002						* Q1 W1 (1)
FREETOWN	356101	co2	co2	--	--	--	--
	356101	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	356101		* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	356101			* Q3 W1 (5)	W1 (5)	W1 (5)	W1 (5)
	356101					* Q2 W1 (2)	W1 (2)
	356101						* Q2 W1 (2)

FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
MOGADISHU	356201	co4	co4	--	--	--	--
	356201	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	356201		* Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	356201			* Q4 W1 (11)	W1 (11)	W1 (11)	W1 (11)
	356201				* Q3 W1 (1)	W1 (1)	W1 (1)
	356201					* Q3 W1 (1)	W1 (1)
	356201						* Q3 W1 (1)
LUSAKA	356301	co2	co2	co2	--	--	--
	356301	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	356301		* Q4 W1 (3)	W1 (3)	W1 (3)	W1 (3)	W1 (3)
	356301			* Q1 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	356301				* Q4 W1 (3)	W1 (3)	W1 (3)
	356301					* Q4 W1 (3)	W1 (3)
	356301						* Q4 W1 (3)
LILONGWE	356401	co2	co2	co2	--	--	--
	356401	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	356401				* Q1 W1 (5)	W1 (5)	W1 (5)
	356401					* Q1 W1 (2)	W1 (2)
PORT LOUIS	356601	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)

FIGURE IX-3

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FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
PORT LOUIS	356601		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	356601			• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	356601				• Q2 W1 (1)	W1 (1)	W1 (1)
	356601					• Q2 W1 (1)	W1 (1)
	356601						• Q1 W1 (1)
VICTORIA -MAHE	356901	co2	co2	--	--	--	--
	356901	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	356901		• Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	356901			• Q3 W1 (8)	W1 (8)	W1 (8)	W1 (8)
	356901				• Q3 W1 (2)	W1 (2)	W1 (2)
	356901					• Q3 W1 (2)	W1 (2)
	356901						• Q2 W1 (2)
HARARE	357401	co4	co4	co4	• Q4 cv5	cv5	cv5
	357401	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
KHARTOUM	357501	co2	co2	--	--	--	--
	357501	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)
	357501		• Q3 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	357501			• Q4 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	357501				• Q1 W1 (1)	W1 (1)	W1 (1)

FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
KHARTOUM	357501					* Q4 W1 (2)	W1 (2)
	357501						* Q3 W1 (2)
DAR ES SALAAM	357601	co2	co2	co2	--	--	--
	357601	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	357601		* Q4 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	357601			* Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	357601				* Q2 W1 (5)	W1 (5)	W1 (5)
MORONI	357619		* Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	357619			* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	357619				* Q3 W1 (1)	W1 (1)	W1 (1)
MALASO	357629		* Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
BANJUL	357701	co2	co2	--	--	--	--
	357701	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	357701		* Q3 W1 (6)	W1 (6)	W1 (6)	W1 (6)	W1 (6)
	357701			* Q3 W1 (3)	W1 (3)	W1 (3)	W1 (3)
	357701						* Q4 W1 (2)
LOME	357801	co2	co2	--	--	--	--
	357801	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	357801		* Q4 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)

FIGURE IX-3

725

FOREIGN SITES: US DEPARTMENT OF STATE 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
LOME	357801			* Q4 W1 (4)	W1 (4)	W1 (4)	W1 (4)
	357801					* Q1 W1 (2)	W1 (2)
	357801						* Q1 W1 (2)
KAMPALA	358201	co2	co2	--	--	--	--
	358201	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	358201			* Q1 W1 (4)	W1 (4)	W1 (4)	W1 (4)
PRETORIA	358401	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	358401	cv5	cv5	cv5	* Q4 C8	C8	C8
CAPE TOWN	358402	co2	co2	co2	* Q1 cv5	cv5	cv5
	358402	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	358402		* Q1 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	358402			* Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)
DURBAN	358403	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	358403		* Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	358403			* Q3 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	358403				* Q2 W1 (2)	W1 (2)	W1 (2)
	358403					* Q2 W1 (2)	W1 (2)
	358403						* Q2 W1 (2)
JOHANNESBURG	358404	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)

FIGURE IX-3

726

FOREIGN SITES: US DEPARTMENT OF STATE

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
JOHANNESBURG	358404	cv3	cv3	cv3	cv3	cv3	cv3
OUGADOUGOU	358501	co2	co2	co2	--	--	--
	358501	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	358501		* Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	358501			* Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	358501				* Q3 W1 (5)	W1 (5)	W1 (5)
	358501					* Q3 W1 (1)	W1 (1)
	358501						* Q3 W1 (1)
FOREIGN CIHS SITES	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T

FIGURE IX-3

FOREIGN SITES: US DEPARTMENT OF STATE

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
FOREIGN CIHS SITES	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co4T	co4T	co4T	co4T	co4T	co4T
	358997	co1T (82)	co1T (82)	co1T (82)	co1T (82)	co1T (82)	co1T (82)
FOREIGN CIHS SITES	358998		* Q1 C4T	C4T	C4T	C4T	C4T
	358998		* Q1 C4T	C4T	C4T	C4T	C4T
	358998		* Q1 C4T	C4T	C4T	C4T	C4T
	358998		* Q1 C4T	C4T	C4T	C4T	C4T
	358998		* Q1 C4T	C4T	C4T	C4T	C4T
	358998		* Q3 C4T	C4T	C4T	C4T	C4T
	358998		* Q4 C4T	C4T	C4T	C4T	C4T
	358998		* Q3 C4T	C4T	C4T	C4T	C4T
	358998		* Q4 C4T	C4T	C4T	C4T	C4T
	358998		* Q3 C4T	C4T	C4T	C4T	C4T
	358998		* Q4 C4T	C4T	C4T	C4T	C4T
	358998		* Q3 C4T	C4T	C4T	C4T	C4T
	358998		* Q4 C4T	C4T	C4T	C4T	C4T
	358998		* Q3 C4T	C4T	C4T	C4T	C4T
	358998		* Q4 C4T	C4T	C4T	C4T	C4T
	358998		* Q1 W1T (35)	W1T (35)	W1T (35)	W1T (35)	W1T (35)
	358998			* Q1 W1T (40)	W1T (40)	W1T (40)	W1T (40)
	358998			* Q2 C4T	C4T	C4T	C4T
	358998			* Q3 C4T	C4T	C4T	C4T
	358998			* Q4 C4T	C4T	C4T	C4T
	358998			* Q1 C4T	C4T	C4T	C4T

FIGURE IX-3

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FOREIGN SITES: US DEPARTMENT OF STATE

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
FOREIGN CIHS SITES	358998			* Q2 C4T	C4T	C4T	C4T
	358998			* Q3 C4T	C4T	C4T	C4T
	358998			* Q4 C4T	C4T	C4T	C4T
	358998			* Q1 C4T	C4T	C4T	C4T
	358998			* Q2 C4T	C4T	C4T	C4T
	358998			* Q3 C4T	C4T	C4T	C4T
FOREIGN CIHS SITES	358999			* Q4 W1T (35)	W1T (35)	W1T (35)	W1T (35)
	358999				* Q4 C4T	C4T	C4T
	358999				* Q1 C4T	C4T	C4T
	358999				* Q2 C4T	C4T	C4T
	358999				* Q3 C4T	C4T	C4T
	358999				* Q4 C4T	C4T	C4T
	358999				* Q1 C4T	C4T	C4T
	358999				* Q2 C4T	C4T	C4T
	358999				* Q3 C4T	C4T	C4T
	358999				* Q4 W1T (35)	W1T (35)	W1T (35)
	358999					* Q4 C4T	C4T
	358999					* Q1 C4T	C4T
	358999					* Q2 C4T	C4T
	358999					* Q3 C4T	C4T
	358999					* Q4 C4T	C4T
	358999					* Q1 C4T	C4T
FOREIGN CIHS SITES	359001					* Q2 W1T (35)	W1T (35)
	359001						* Q4 C4T
	359001						* Q1 C4T

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FIGURE IX-3

729

FOREIGN SITES: US DEPARTMENT OF STATE

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
FOREIGN CIHS SITES	359001						* Q2 C4T
	359001						* Q3 C4T
	359001						* Q4 W1T (35)
ITP (FAIS FOREIGN)	359009			* Q1 C5T	C5T	C5T	C5T
	359009			* Q2 C6T	C6T	C6T	C6T
	359009				* Q1 C3T	C3T	C3T
	359009				* Q2 C5T	C5T	C5T
	359009				* Q3 C6T	C6T	C6T
	359009				* Q4 C6T	C6T	C6T
	359009					* Q3 C3T	C3T
	359009					* Q4 C5T	C5T
	359009					* Q1 C5T	C5T
	359009					* Q2 C6T	C6T
	359009					* Q3 C6T	C6T
	359009						* Q1 C3T
	359009						* Q2 C3T
	359009						* Q3 C5T
	359009						* Q4 C5T
	359009						* Q1 C6T

FIGURE IX-3

730

FOREIGN TARGET SYSTEMS (CUMULATIVE)

07/31/86

US DEPARTMENT OF STATE

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	141	287	399	471	541
C1	0	2	6	13	16	22
C2	0	4	5	6	6	6
C3	0	4	15	27	32	36
C4	0	1	2	5	5	5
C5	0	5	12	14	14	14
C6	0	3	7	23	27	27
SUB-TOTAL	0	160	334	487	571	651
TEMPEST						
W1T	0	35	110	145	180	215
C3T	0	0	0	1	2	4
C4T	0	15	25	33	39	43
C5T	0	0	1	2	4	6
C6T	0	0	1	3	5	6
SUB-TOTAL	0	50	137	184	230	274
TOTAL TARGET SYSTEMS	0	210	471	671	801	925

FIGURE IX-3

FOREIGN ACQUISITIONS (NON-CUMULATIVE) 07/31/86

US DEPARTMENT OF STATE

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST							
W1		Q1	36	37	26	18	16
		Q2	34	29	33	18	19
		Q3	30	40	28	14	15
		Q4	41	40	25	22	20
	SUB-TOTAL		141	146	112	72	70
C1		Q1	0	2	2	1	1
		Q2	0	1	2	0	1
		Q3	2	1	1	2	2
		Q4	0	0	2	0	2
	SUB-TOTAL		2	4	7	3	6
C2		Q1	0	0	0	0	0
		Q2	0	0	1	0	0
		Q3	3	0	0	0	0
		Q4	1	1	0	0	0
	SUB-TOTAL		4	1	1	0	0
C3		Q1	0	2	5	2	1
		Q2	0	2	3	1	2
		Q3	3	2	4	1	1
		Q4	1	5	0	1	0
	SUB-TOTAL		4	11	12	5	4
C4		Q1	0	0	0	0	0
		Q2	0	0	1	0	0
		Q3	0	1	1	0	0
		Q4	1	0	1	0	0
	SUB-TOTAL		1	1	3	0	0

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FIGURE IX-3

732

FOREIGN ACQUISITIONS (NON-CUMULATIVE) 07/31/86

US DEPARTMENT OF STATE

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	0	1	0	0	0
	Q2	0	1	1	0	0
	Q3	3	2	1	0	0
	Q4	2	3	0	0	0
SUB-TOTAL		5	7	2	0	0
C6	Q1	0	1	2	0	0
	Q2	0	0	3	2	0
	Q3	3	1	4	1	0
	Q4	0	2	7	1	0
SUB-TOTAL		3	4	16	4	0
TOTAL NON-TEMPEST ACQUISITIONS		160	174	153	84	80

FIGURE IX-3

FOREIGN ACQUISITIONS (NON-CUMULATIVE) 07/31/86

US DEPARTMENT OF STATE

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST						
W1T	Q1	35	40	0	0	0
	Q2	0	0	0	35	0
	Q3	0	0	0	0	0
	Q4	0	35	35	0	35
SUB-TOTAL		35	75	35	35	35
C3T	Q1	0	0	1	0	1
	Q2	0	0	0	0	1
	Q3	0	0	0	1	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	1	1	2
C4T	Q1	5	2	2	2	1
	Q2	0	3	2	1	1
	Q3	5	3	2	1	1
	Q4	5	2	2	2	1
SUB-TOTAL		15	10	8	6	4
C5T	Q1	0	1	0	1	0
	Q2	0	0	1	0	0
	Q3	0	0	0	0	1
	Q4	0	0	0	1	1
SUB-TOTAL		0	1	1	2	2
C6T	Q1	0	0	0	0	1
	Q2	0	1	0	1	0
	Q3	0	0	1	1	0
	Q4	0	0	1	0	0
SUB-TOTAL		0	1	2	2	1
TOTAL TEMPEST ACQUISITIONS		50	87	47	46	44
TOTAL ACQUISITIONS		210	261	200	130	124

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FIGURE IX-3

DOMESTIC AND FOREIGN TARGET SYSTEMS (CUMULATIVE) 07/31/86

US DEPARTMENT OF STATE

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	364	629	813	946	1,081
C1	0	4	8	15	19	25
C2	0	4	5	6	6	6
C3	0	6	17	29	37	41
C4	0	2	3	6	6	6
C5	0	9	18	20	22	23
C6	0	6	13	32	37	37
SUB-TOTAL	0	395	693	921	1,073	1,219
TEMPEST						
W1T	0	37	138	178	218	258
C3T	0	3	7	13	20	25
C4T	0	18	29	38	44	51
C5T	0	3	8	11	16	20
C6T	0	0	4	9	12	16
SUB-TOTAL	0	61	186	249	310	370
TOTAL TARGET SYSTEMS	0	456	879	1,170	1,383	1,589

FIGURE IX-3

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE)

US DEPARTMENT OF STATE

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	Q1	70	66	43	31	39
	Q2	85	58	56	35	30
	Q3	69	78	45	27	29
	Q4	140	63	40	40	37
SUB-TOTAL		364	265	184	133	135
C1	Q1	0	2	2	2	1
	Q2	0	1	2	0	1
	Q3	3	1	1	2	2
	Q4	1	0	2	0	2
SUB-TOTAL		4	4	7	4	6
C2	Q1	0	0	0	0	0
	Q2	0	0	1	0	0
	Q3	3	0	0	0	0
	Q4	1	1	0	0	0
SUB-TOTAL		4	1	1	0	0
C3	Q1	0	2	5	3	1
	Q2	0	2	3	2	2
	Q3	4	2	4	2	1
	Q4	2	5	0	1	0
SUB-TOTAL		6	11	12	8	4
C4	Q1	0	0	0	0	0
	Q2	0	0	1	0	0
	Q3	1	1	1	0	0
	Q4	1	0	1	0	0
SUB-TOTAL		2	1	3	0	0

FIGURE IX-3

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US DEPARTMENT OF STATE

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	1	3	0	1	0
	Q2	2	1	1	1	1
	Q3	4	2	1	0	0
	Q4	2	3	0	0	0
SUB-TOTAL		9	9	2	2	1
C6	Q1	0	1	2	0	0
	Q2	0	2	5	2	0
	Q3	4	1	5	2	0
	Q4	2	3	7	1	0
SUB-TOTAL		6	7	19	5	0
TOTAL NON-TEMPEST ACQUISITIONS		395	298	228	152	146

FIGURE IX-3

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DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE) 07/31/88

US DEPARTMENT OF STATE

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST							
W1T		Q1	37	51	1	3	3
		Q2	0	6	1	36	0
		Q3	0	7	1	1	1
		Q4	0	37	37	0	36
	SUB-TOTAL		37	101	40	40	40
C3T		Q1	0	1	2	0	2
		Q2	0	1	0	2	2
		Q3	2	1	2	3	0
		Q4	1	1	2	2	1
	SUB-TOTAL		3	4	6	7	5
C4T		Q1	5	2	2	2	1
		Q2	0	3	2	1	3
		Q3	7	3	3	1	2
		Q4	6	3	2	2	1
	SUB-TOTAL		18	11	9	6	7
C5T		Q1	0	1	1	2	0
		Q2	0	1	1	1	0
		Q3	2	2	0	0	2
		Q4	1	1	1	2	2
	SUB-TOTAL		3	5	3	5	4
C6T		Q1	0	2	1	0	2
		Q2	0	1	1	2	1
		Q3	0	1	2	1	1
		Q4	0	0	1	0	0
	SUB-TOTAL		0	4	5	3	4
TOTAL TEMPEST ACQUISITIONS			61	125	63	61	60
TOTAL ACQUISITIONS			456	423	291	213	206

FIGURE IX-3

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DOMESTIC SITES: US INFORMATION AGENCY 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
USIA/PL	A00010	co4	co4	co4	• Q1 C1	C1	C1
USIA/GC	A00020	co4	co4	co4	co4	• Q4 C3	C3
USIA/VOA	A00030	co4T	co4T	• Q3 C1	C1	C1	C1
USIA/VOA/A	A00040	co4	• Q3 C4	C4	C4	C4	C4
	A00040	co4	• Q4 C4	C4	C4	C4	C4
USIA/VOA/B	A00050	co4	• Q3 C4	C4	C4	C4	C4
USIA/VOA/E	A00060	co4	co4	co4	co4	co4	• Q2 C3
	A00060	co4	co4	co4	co4	co4	• Q3 C3
	A00060	co4	co4	co4	co4	co4	• Q4 C3
	A00060	co4	• Q4 C4	C4	C4	C4	C4
	A00060	co4	• Q3 C4	C4	C4	C4	C4
USIA/VOA/P	A00070	co4	• Q4 C4	C4	C4	C4	C4
USIA/VOA/R	A00080	co4	• Q3 C4	C4	C4	C4	C4
USIA/P/D	A00090	co4	co4	co4	co4	• Q1 C3	C3
	A00090	co3	co3	co3	co3	co3	co3
USIA/P/ED	A00100	co3	• Q4 C1	C1	C1	C1	C1
USIA/P/G	A00110	co4	co4	co4	co4	co4	co4
	A00110	co2	co2	co2	co2	co2	co2
	A00110	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	A00110		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	A00110			• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	A00110				• Q2 W1 (1)	W1 (1)	W1 (1)
	A00110					• Q3 W1 (1)	W1 (1)
	A00110						• Q1 W1 (1)

FIGURE IX-3

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DOMESTIC SITES: US INFORMATION AGENCY 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
USIA/P/G	A00110	cv5	cv5	cv5	cv5	cv5	cv5
	A00110	co2	co2	co2	co2	co2	co2
USIA/P/FL	A00120	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
USIA/P/FN	A00130	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	A00130			(	* Q3 W1 1)	W1 (1)	W1 (1)
	A00130	co3	co3	co3	--	--	--
USIA/P/FW	A00140	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	A00140		* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	A00140			* Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	A00140				* Q4 W1 (5)	W1 (5)	W1 (5)
	A00140					* Q3 W1 (1)	W1 (1)
	A00140						* Q2 W1 (1)
	A00140	co3	co3	co3	--	--	--
USIA/P/P	A00150	co4	* Q3 C4	C4	C4	C4	C4
	A00150	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
USIA/P/R	A00160	co4	* Q4 C4	C4	C4	C4	C4
	A00160	co2	--	--	--	--	--
	A00160	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)
	A00160		* Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	A00160			* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)

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FIGURE IX-3

DOMESTIC SITES: US INFORMATION AGENCY 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
USIA/P/R	A00160				* Q1 W1 (1)	W1 (1)	W1 (1)
	A00160					* Q4 W1 (1)	W1 (1)
	A00160						* Q3 W1 (1)
	A00160	co1T (1)	co1T (1)	co1T (1)	co1T (1)	co1T (1)	co1T (1)
USIA/P/X	A00170	co4	co4	co4	co4	* Q1 C4	C4
	A00170	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	A00170		* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	A00170			* Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	A00170				* Q2 W1 (1)	W1 (1)	W1 (1)
	A00170					* Q2 W1 (1)	W1 (1)
	A00170						* Q4 W1 (1)
USIA/E/X	A00180	co4	co4	* Q4 C4	C4	C4	C4
	A00180	co4	co4	* Q1 C4	C4	C4	C4
	A00180	co4	co4	* Q2 C4	C4	C4	C4
	A00180	co4	co4	* Q3 C4	C4	C4	C4
USIA/M/ATU	A00190	co4	co4	co4	co4	* Q3 C1	C1
	A00190	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
USIA/M/K	A00200	co4	co4	co4	co4	* Q4 C3	C3
USIA/M/M	A00210	cv5	cv5	cv5	cv5	cv5	cv5
	A00210	cv5	cv5	cv5	cv5	cv5	cv5
	A00210	cv5	cv5	cv5	cv5	cv5	cv5

FIGURE IX-3

DOMESTIC SITES: US INFORMATION AGENCY 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
USIA/M/S	A00220	co4	co4	* Q4 C3	C3	C3	C3
	A00220	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)
	A00220		* Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	A00220			* Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	A00220				* Q3 W1 (1)	W1 (1)	W1 (1)
	A00220					* Q1 W1 (1)	W1 (1)
	A00220						* Q1 W1 (1)
USIA/TV/FSC	A00230	co4	co4	co4	co4	* Q2 C3	C3
	A00230	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)
	A00230		* Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	A00230			* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	A00230				* Q4 W1 (1)	W1 (1)	W1 (1)
	A00230					* Q3 W1 (1)	W1 (1)
	A00230						* Q2 W1 (1)
	A00230	co3	--	--	--	--	--
USIA/TV/M	A00240	co4	co4	* Q3 C3	C3	C3	C3
USIA/TV/NLV	A00250	co2	* Q3 C1	C1	C1	C1	C1
USIA/AF	A00260	co3	co3	co3	co3	co3	* Q3 C1
USIA/AR	A00270	co3	co3	co3	co3	co3	co3
USIA/EA	A00280	co3	co3	* Q4 C2	C2	C2	C2
USIA/NEA	A00290	co3	co3	co3	* Q1 C1	C1	C1

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FIGURE IX-3

DOMESTIC TARGET SYSTEMS (CUMULATIVE)

07/31/86

US INFORMATION AGENCY

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	6	12	23	29	35
C1	0	2	3	5	6	7
C2	0	0	1	1	1	1
C3	0	0	2	2	6	9
C4	0	9	13	13	14	14
C5	0	0	0	0	0	0
C6	0	0	0	0	0	0
SUB-TOTAL	0	17	31	44	56	66
TEMPEST						
W1T	0	0	0	0	0	0
C3T	0	0	0	0	0	0
C4T	0	0	0	0	0	0
C5T	0	0	0	0	0	0
C6T	0	0	0	0	0	0
SUB-TOTAL	0	0	0	0	0	0
TOTAL TARGET SYSTEMS	0	17	31	44	56	66

FIGURE IX-3

DOMESTIC ACQUISITIONS (NON-CUMULATIVE) 07/31/86

US INFORMATION AGENCY

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	Q1	2	2	1	1	2
	Q2	2	2	2	2	2
	Q3	1	1	2	2	1
	Q4	1	1	6	1	1
SUB-TOTAL		6	6	11	6	6
C1	Q1	0	0	2	0	0
	Q2	0	0	0	0	0
	Q3	1	1	0	1	1
	Q4	1	0	0	0	0
SUB-TOTAL		2	1	2	1	1
C2	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	1	0	0	0
SUB-TOTAL		0	1	0	0	0
C3	Q1	0	0	0	1	0
	Q2	0	0	0	1	1
	Q3	0	1	0	0	1
	Q4	0	1	0	2	1
SUB-TOTAL		0	2	0	4	3
C4	Q1	0	1	0	1	0
	Q2	0	1	0	0	0
	Q3	5	1	0	0	0
	Q4	4	1	0	0	0
SUB-TOTAL		9	4	0	1	0

FIGURE IX-3

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DOMESTIC ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US INFORMATION AGENCY

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C6	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
TOTAL NON-TEMPEST ACQUISITIONS		17	14	13	12	10

FIGURE IX-3

DOMESTIC ACQUISITIONS (NON-CUMULATIVE) 07/31/86

US INFORMATION AGENCY

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST							
W1T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C3T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C4T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C5T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C6T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
TOTAL TEMPEST ACQUISITIONS			0	0	0	0	0
TOTAL ACQUISITIONS			17	14	13	12	10

FIGURE IX-3

FOREIGN SITES: US INFORMATION AGENCY

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
USIA/M/ATS. WASH.DC	B10000		(D)Q1 C5	C5	C5	C5	C5
	B10000	co3	co3	co3	* Q2 C3	C3	C3
	B10000	co4	co4	co4	co4	* Q4 C4	C4
	B10000	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	B10000	cv5	cv5	cv5	cv5	cv5	cv5
USIA/BUENOS AIRES	B10201	co4	co4	co4	co4	* Q1 C4	C4
USIA/BRASILIA	B10601	cv3	* Q3 C5	C5	C5	C5	C5
USIA/SANTIAGO	B10801	co3	* Q4 C4	C4	C4	C4	C4
USIA/BRIDGETOWN	B11101	co3	* Q3 C4	C4	C4	C4	C4
USIA/SANTO DOMINGO	B11601	co2	* Q4 C1	C1	C1	C1	C1
USIA/MEXICO	B12801	co3	co3	* Q1 C1	C1	C1	C1
USIA/MONTERREY	B12807	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
USIA/PANAMA	B13201	co4	co4	co4	co4	* Q2 C4	C4
USIA/LIMA	B13601	co4	co4	co4	co4	* Q3 C4	C4
USIA/MONTEVIDEO	B13801	co2	co2	* Q2 C1	C1	C1	C1
USIA/MARACAIBO	B14002	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
USIA/VIENNA	B20601	co4	co4	co4	co4	* Q4 C4	C4
USIA/BRUSSELS	B21201	co2	* Q3 C1	C1	C1	C1	C1
USIA/OTTAWA	B22681	co3	* Q4 C4	C4	C4	C4	C4
USIA/TORONTO	B22689	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
USIA/VANCOUVER	B22692	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
USIA/HELSINKI	B23401	co3	* Q3 C4	C4	C4	C4	C4
USIA/PARIS	B23801	co3	* Q4 C4	C4	C4	C4	C4
	B23801	co4	co4	co4	co4	* Q1 C4	C4

FIGURE IX-3

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FOREIGN SITES: US INFORMATION AGENCY

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
USIA/BONN	B24001	co3	co3	* Q3 C1	C1	C1	C1
USIA/BERLIN (FRG)	B24002	co3	co3	* Q4 C1	C1	C1	C1
USIA/FRANKFURT	B24005	co2	co2	co2	* Q3 C1	C1	C1
USIA/HAMBURG	B24006	co3	co3	* Q1 C1	C1	C1	C1
USIA/MUNICH	B24007	co3	co3	* Q2 C1	C1	C1	C1
USIA/STUTTGART	B24008	co3	co3	* Q3 C1	C1	C1	C1
USIA/HANOVER	B24014	co2	co2	co2	* Q4 C1	C1	C1
USIA/COLOGNE	B24015	co2	co2	co2	* Q1 C1	C1	C1
USIA/REYKJAVIK	B24601	co4	co4	co4	co4	* Q2 C4	C4
USIA/OSLO	B26201	co3	* Q3 C4	C4	C4	C4	C4
USIA/BUCHAREST	B26801	co3	co3	* Q4 C1	C1	C1	C1
	B26801	co2	co2	* Q1 C1	C1	C1	C1
USIA/BARCELONA	B27002	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
USIA/ISTANBUL	B28202	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
USIA/HONG KONG	B30401	co4	* Q4 C4	C4	C4	C4	C4
USIA/BEIJING	B30501	co4	co4	co4	co4	* Q3 C4	C4
USIA/CANBERRA	B30701	co3	* Q3 C4	C4	C4	C4	C4
USIA/TOKYO	B30801	co3	co3	* Q2 C1	C1	C1	C1
USIA/FUKUOKA	B30802	co2	co2	* Q3 C1	C1	C1	C1
USIA/OSAKA-KOBE	B30803	co3	co3	* Q4 C1	C1	C1	C1
USIA/NAGOYA	B30804	co2	co2	* Q1 C1	C1	C1	C1
USIA/KYOTO	B30831	co2	co2	* Q2 C1	C1	C1	C1
USIA/SEOUL	B31001	co4	co4	co4	co4	* Q4 C4	C4
USIA/WELLINGTON	B31301	co4	co4	co4	co4	* Q1 C4	C4
USIA/BANGKOK	B31601	co4	co4	co4	co4	* Q2 C4	C4
USIA/RANGOON	B33101	co2	co2	* Q3 C1	C1	C1	C1

FIGURE IX-3

FOREIGN SITES: US INFORMATION AGENCY

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
USIA/CAIRO	B41601	co4	co4	co4	co4	• Q3 C4	C4
USIA/NEW DELHI	B42801	cv3	• Q4 C5	C5	C5	C5	C5
USIA/BOMBAY	B42802	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
USIA/CALCUTTA	B42803	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
USIA/MADRAS	B42804	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
USIA/TEL AVIV	B43801	co4	co4	co4	co4	• Q4 C4	C4
USIA/JERUSALEM	B43803	co2	co2	• Q4 C1	C1	C1	C1
USIA/AMMAN	B44001	co3	• Q3 C4	C4	C4	C4	C4
USIA/RABAT	B45601	co4	co4	co4	co4	• Q1 C4	C4
USIA/ISLAMABAD	B46201	co4	co4	co4	co4	• Q2 C4	C4
USIA/TUNIS	B48001	co3	• Q4 C4	C4	C4	C4	C4
USIA/KINSHASA	B50801	co4	co4	co4	co4	• Q3 C4	C4
USIA/DAKAR	B52201	co3	• Q3 C4	C4	C4	C4	C4
USIA/ACCRA	B52401	co3	• Q4 C4	C4	C4	C4	C4
USIA/ABIDJAN	B53001	co3	• Q3 C4	C4	C4	C4	C4
USIA/LAGOS	B56001	co4	co4	co4	co4	• Q4 C4	C4
USIA/LUSAKA	B56301	co3	• Q4 C4	C4	C4	C4	C4
USIA/HARARE	B57401	co4	co4	co4	co4	• Q1 C4	C4
USIA/DAR ES SALAAM	B57601	co4	co4	co4	co4	• Q2 C4	C4
USIA/PRETORIA	B58401	co3	co3	• Q1 C1	C1	C1	C1
USIA/CAPETOWN	B58402	co2	co2	• Q2 C1	C1	C1	C1
USIA/JOHANNESBURG	B58404	co4	co4	co4	co4	• Q3 C4	C4

FIGURE IX-3 769

FOREIGN TARGET SYSTEMS (CUMULATIVE)

07/31/86

US INFORMATION AGENCY

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	0	0	0	0	0
C1	0	2	20	23	23	23
C2	0	0	0	0	0	0
C3	0	0	0	1	1	1
C4	0	14	14	14	34	34
C5	0	3	3	3	3	3
C6	0	0	0	0	0	0
SUB-TOTAL	0	19	37	41	61	61
TEMPEST						
W1T	0	0	0	0	0	0
C3T	0	0	0	0	0	0
C4T	0	0	0	0	0	0
C5T	0	0	0	0	0	0
C6T	0	0	0	0	0	0
SUB-TOTAL	0	0	0	0	0	0
TOTAL TARGET SYSTEMS	0	19	37	41	61	61

FIGURE IX-3

FOREIGN ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US INFORMATION AGENCY

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C1	Q1	0	5	1	0	0
	Q2	0	5	0	0	0
	Q3	1	4	1	0	0
	Q4	1	4	1	0	0
SUB-TOTAL		2	18	3	0	0
C2	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C3	Q1	0	0	0	0	0
	Q2	0	0	1	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	1	0	0
C4	Q1	0	0	0	5	0
	Q2	0	0	0	5	0
	Q3	7	0	0	5	0
	Q4	7	0	0	5	0
SUB-TOTAL		14	0	0	20	0

FIGURE IX-3

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FOREIGN ACQUISITIONS (NON-CUMULATIVE)

US INFORMATION AGENCY

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	1	0	0	0	0
	Q2	0	0	0	0	0
	Q3	1	0	0	0	0
	Q4	1	0	0	0	0
SUB-TOTAL		3	0	0	0	0
C6	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
TOTAL NON-TEMPEST ACQUISITIONS		19	18	4	20	0

FIGURE IX-3

FOREIGN ACQUISITIONS (NON-CUMULATIVE) 07/31/86

US INFORMATION AGENCY

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST						
W1T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C3T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C4T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C5T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C6T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
TOTAL TEMPEST ACQUISITIONS		0	0	0	0	0
TOTAL ACQUISITIONS		19	18	4	20	0

FIGURE IX-3

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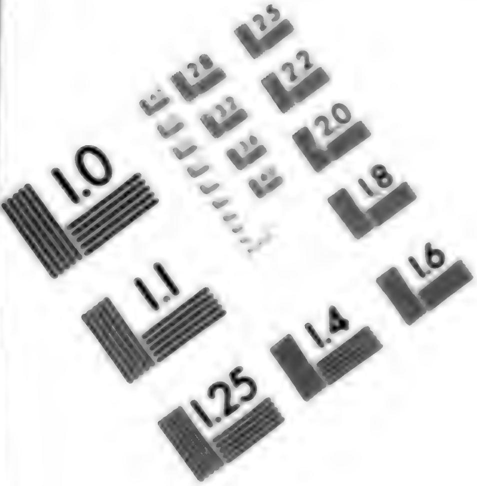

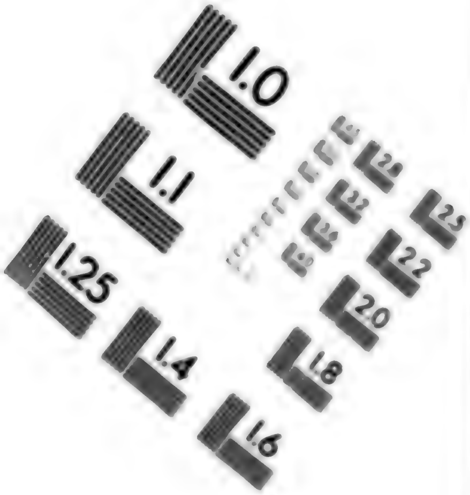

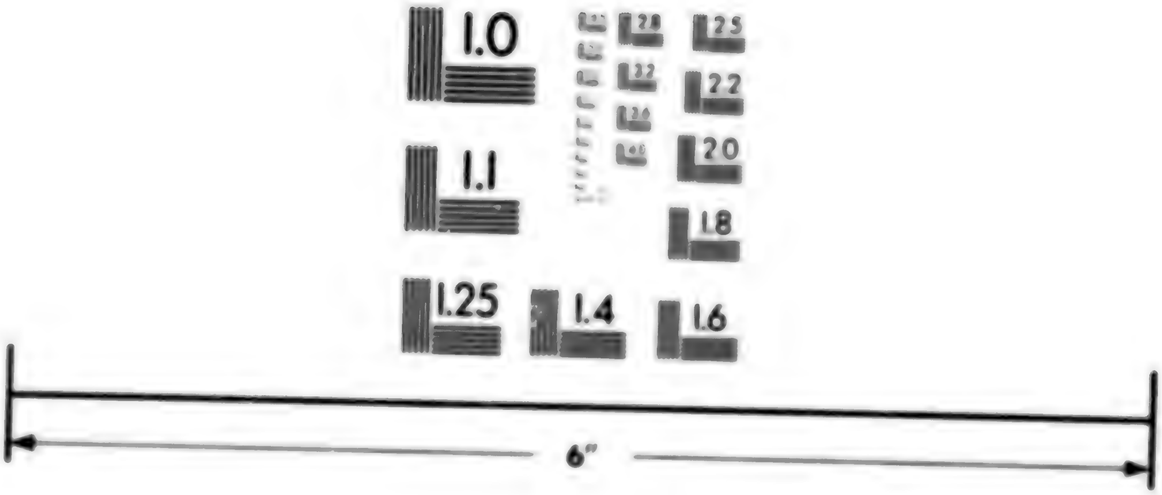

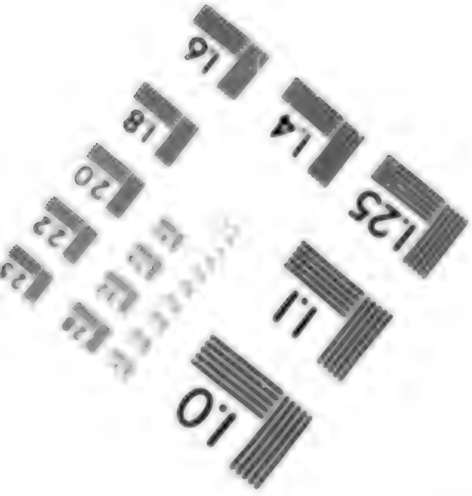

DOMESTIC AND FOREIGN TARGET SYSTEMS (CUMULATIVE) 07/31/86

US INFORMATION AGENCY

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	6	12	23	29	35
C1	0	4	23	28	29	30
C2	0	0	1	1	1	1
C3	0	0	2	3	7	10
C4	0	23	27	27	48	48
C5	0	3	3	3	3	3
C6	0	0	0	0	0	0
SUB-TOTAL	0	36	68	85	117	127
TEMPEST						
W1T	0	0	0	0	0	0
C3T	0	0	0	0	0	0
C4T	0	0	0	0	0	0
C5T	0	0	0	0	0	0
C6T	0	0	0	0	0	0
SUB-TOTAL	0	0	0	0	0	0
TOTAL TARGET SYSTEMS	0	36	68	85	117	127

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FIGURE IX-3

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE) 07/31/86

US INFORMATION AGENCY

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST							
W1		Q1	2	2	1	1	2
		Q2	2	2	2	2	2
		Q3	1	1	2	2	1
		Q4	1	1	6	1	1
	SUB-TOTAL		6	6	11	6	6
C1		Q1	0	5	3	0	0
		Q2	0	5	0	0	0
		Q3	2	5	1	1	1
		Q4	2	4	1	0	0
	SUB-TOTAL		4	19	5	1	1
C2		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	1	0	0	0
	SUB-TOTAL		0	1	0	0	0
C3		Q1	0	0	0	1	0
		Q2	0	0	1	1	1
		Q3	0	1	0	0	1
		Q4	0	1	0	2	1
	SUB-TOTAL		0	2	1	4	3
C4		Q1	0	1	0	6	0
		Q2	0	1	0	5	0
		Q3	12	1	0	5	0
		Q4	11	1	0	5	0
	SUB-TOTAL		23	4	0	21	0

FIGURE IX-3

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US INFORMATION AGENCY

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	1	0	0	0	0
	Q2	0	0	0	0	0
	Q3	1	0	0	0	0
	Q4	1	0	0	0	0
SUB-TOTAL		3	0	0	0	0
C6	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
TOTAL NON-TEMPEST ACQUISITIONS		36	32	17	32	10

FIGURE IX-3

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE)

US INFORMATION AGENCY

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST						
W1T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C3T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C4T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C5T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C6T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
TOTAL TEMPEST ACQUISITIONS		0	0	0	0	0
TOTAL ACQUISITIONS		36	32	17	32	10

FIGURE IX-3

DOMESTIC SITES: US AGENCY FOR INTERNATIONAL DEVELOPMENT 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AID/ES	CBOA00	co4	co4	• Q3 C4	C4	C4	C4
	CBOA00	co2	co2	co2	co2	co2	co2
	CBOA00	co2	co2	co2	co2	co2	co2
AID/PPC	CCOA00	co4	co4	• Q4 C4	C4	C4	C4
	CCOA00	co4	co4	--	--	--	--
	CCOA00	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	CCOA00	co2	co2	co2	co2	--	--
	CCOA00	co2	co2	co2	co2	--	--
	CCOA00	co2	co2	co2	co2	--	--
AID/S&T	CDOA00	co4	co4	co4	• Q2 C5	C5	C5
	CDOA00	co4	co4	co4	--	--	--
	CDOA00	co2	co2	co2	co2	co2	co2
	CDOA00	co2	co2	co2	co2	co2	co2
	CDOA00	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	CDOA00	co2	co2	co2	co2	--	--
	CDOA00	co2	co2	co2	co2	--	--
AID/M/PM	CEOB00	co4	co4	• Q1 C3	C3	C3	C3
	CEOB00	co4	co4	--	--	--	--
	CEOB00	co4	co4	• Q2 C4	C4	C4	C4
	CEOB00	co2	co2	co2	co2	co2	co2
	CEOB00	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	CEOB00	co2	co2	co2	co2	--	--
AID/M/FM	CEOC00	co4	co4	co4	co4	co4	co4
	CEOC00	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	CEOC00	cv5	cv5	cv5	cv5	cv5	cv5

FIGURE IX-3

DOMESTIC SITES: US AGENCY FOR INTERNATIONAL DEVELOPMENT 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AID/M/FM	CE0C00	co2	co2	co2	co2	--	--
AID/AAA/SER	CE1A00	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
AID/M/SER/EOMS	CE1B00	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
AID/IRM	CE1C00		(D)Q1 C5	C5	C5	C5	C5
	CE1C00	co4	co4	co4	co4	co4	co4
	CE1C00	co2	co2	co2	co2	co2	co2
	CE1C00	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	CE1C00	cv5	cv5	cv5	cv5	cv5	cv5
	CE1C00	cv5	cv5	cv5	cv5	cv5	cv5
	CE1C00	cv1	cv1	cv1	cv1	cv1	cv1
	CE1C00	cv2	cv2	cv2	cv2	cv2	cv2
AID/IRM/ML/R	CE1C89	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
AID (IN STOCK-IRM)	CE1C99	co1 (54)	co1 (54)	co1 (54)	co1 (54)	co1 (54)	co1 (54)
AID/SER/MO	CE1D00	co2	co2	co2	co2	co2	co2
	CE1D00	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
AID/M/SER/CM	CE1F00	co2	co2	co2	co2	co2	co2
AID/FVA	CF0A00	co4	co4	* Q3 C3	C3	C3	C3
	CF0A00	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	CF0A00	co2	co2	--	--	--	--
AID/PRE	CG0A00	co4	co4	* Q4 C3	C3	C3	C3
	CG0A00	co2	co2	co2	co2	co2	co2
AID/AFR	CH0A00	co4	* Q3 C5	C5	C5	C5	C5
	CH0A00	co4	--	--	--	--	--

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FIGURE IX-3

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DOMESTIC SITES: US AGENCY FOR INTERNATIONAL DEVELOPMENT 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AID/AFR	CHOAUO	co2	co2	co2	co2	co2	co2
	CHOAOO	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	CHOAOO	co2	co2	co2	co2	--	--
	CHOAOO	co2	co2	co2	co2	--	--
AID/ANE	CJOAOO	co4	co4	co4	* Q3 C4	C4	C4
	CJOAOO	co4	co4	co4	* Q4 C5	C5	C5
	CJOAOO	co4	co4	co4	--	--	--
	CJOAOO	co2	co2	co2	co2	co2	co2
	CJOAOO	co2	co2	co2	co2	co2	co2
AID/LAC	CKOAOO	co4	co4	co4	co4	* Q4 C4	C4
	CKOAOO	co4	co4	co4	co4	co4	co4
	CKOAOO	co2	co2	co2	co2	co2	co2
	CKOAOO	co2	co2	co2	co2	co2	co2
	CKOAOO	co2	co2	co2	co2	co2	co2
	CKOAOO	co2	co2	co2	co2	co2	co2
	CKOAOO	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	CKOAOO	co2	co2	co2	co2	co2	co2
AID/XA	CLOAOO	co2	co2	co2	co2	co2	co2
	CLOAOO	co2	co2	co2	co2	co2	co2
	CLOAOO	co2	co2	co2	co2	co2	co2
AID/LEG	CMOAOO	co2	co2	co2	co2	co2	co2
AID/IG	CNOAOO	co4	* Q4 C4	C4	C4	C4	C4
	CNOAOO	co2	co2	co2	co2	co2	co2
	CNOAOO	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
AID/GC	COOAOO	co4	co4	co4	co4	* Q1 C3	C3

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FIGURE IX-3

DOMESTIC SITES: US AGENCY FOR INTERNATIONAL DEVELOPMENT 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AID/GC	C00A00	co2	co2	co2	co2	--	--
	C00A00	co2	co2	co2	co2	--	--
	C00A00	co2	co2	co2	co2	--	--
	C00A00	co2	co2	co2	co2	--	--
AID/UNASSIGNED	C00000	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	C00000	co2	co2	co2	co2	--	--
	C00000	co2	co2	co2	co2	--	--
	C00000	co2	co2	co2	co2	--	--
	C00000	co2	co2	co2	co2	--	--
	C00000	co2	co2	co2	co2	--	--
	C00000	co2	co2	co2	co2	--	--
	C00000	co2	co2	co2	co2	--	--
AID/SCIENCE ADV	C00010	co2	co2	co2	co2	co2	co2
AID/SDB	C00011	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
AID/WHSE	C00020	co2	co2	co2	co2	co2	co2
	C00020	co2	co2	co2	co2	--	--
AID/DA/AID	C00030	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	C00030		* Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	C00030	co2	co2	co2	co2	--	--
AID/OFDA	CR0A00	co4	co4	co4	co4	* Q2 C3	C3
	CR0A00	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
AID/BIFAD	CW0A00	co3	co3	co3	co3	co3	co3

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FIGURE IX-3

DOMESTIC TARGET SYSTEMS (CUMULATIVE)

07/31/86

US AGENCY FOR INTERNATIONAL DEVELOPMENT

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	1	1	1	1	1
C1	0	0	0	0	0	0
C2	0	0	0	0	0	0
C3	0	0	3	3	5	5
C4	0	1	4	5	6	6
C5	0	2	2	4	4	4
C6	0	0	0	0	0	0
SUB-TOTAL	0	4	10	13	16	16
TEMPEST						
W1T	0	0	0	0	0	0
C3T	0	0	0	0	0	0
C4T	0	0	0	0	0	0
C5T	0	0	0	0	0	0
C6T	0	0	0	0	0	0
SUB-TOTAL	0	0	0	0	0	0
TOTAL TARGET SYSTEMS	0	4	10	13	16	16

FIGURE IX-3

US AGENCY FOR INTERNATIONAL DEVELOPMENT

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST							
W1		Q1	1	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		1	0	0	0	0
C1		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C2		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C3		Q1	0	1	0	1	0
		Q2	0	0	0	1	0
		Q3	0	1	0	0	0
		Q4	0	1	0	0	0
	SUB-TOTAL		0	3	0	2	0
C4		Q1	0	0	0	0	0
		Q2	0	1	0	0	0
		Q3	0	1	1	0	0
		Q4	1	1	0	1	0
	SUB-TOTAL		1	3	1	1	0

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FIGURE IX-3

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DOMESTIC ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US AGENCY FOR INTERNATIONAL DEVELOPMENT

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	1	0	0	0	0
	Q2	0	0	1	0	0
	Q3	1	0	0	0	0
	Q4	0	0	1	0	0
SUB-TOTAL		2	0	2	0	0
C6	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
TOTAL NON-TEMPEST ACQUISITIONS		4	6	3	3	0

FIGURE IX-3

DOMESTIC ACQUISITIONS (NON-CUMULATIVE) 07/31/86

US AGENCY FOR INTERNATIONAL DEVELOPMENT

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST							
M1T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C3T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C4T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C5T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C6T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
TOTAL TEMPEST ACQUISITIONS			0	0	0	0	0
TOTAL ACQUISITIONS			4	6	3	3	0

FIGURE IX-3

FOREIGN SITES: US AGENCY FOR INTERNATIONAL DEVELOPMENT 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AID/LA PAZ	D10401	co3	co3	co3	co3	--	--
	D10401	cv3	cv3	cv3	cv3	* Q3 C4	C4
AID/BELIZE	D10901					* Q4 C1	C1
	D10901	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	D10901				* Q1 W1 (1)	W1 (1)	W1 (1)
	D10901	co2	co2	co2	co2	--	--
	D10901	co2	co2	co2	co2	--	--
AID/BRIDGETOWN	D11101	co4	co4	co4	co4	--	--
	D11101	cv3	cv3	cv3	cv3	* Q1 C4	C4
AID/SAN JOSE	D11201		(D)Q1 C5	C5	C5	C5	C5
	D11201	co3	co3	co3	co3	--	--
	D11201	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	D11201	cv2	cv2	cv2	cv2	@ Q2 cv5	cv5
	D11201	cv2	cv2	cv2	cv2	cv2	cv2
	D11201	co2	co2	co2	co2	--	--
	D11201	co2	co2	co2	co2	--	--
AID/SANTO DOMINGO	D11601	cv5	cv5	cv5	cv5	* Q3 C5	C5
	D11601	co2	co2	co2	co2	--	--
AID/QUITO	D11801	co3	co3	co3	co3	--	--
	D11801	cv3	cv3	cv3	cv3	* Q4 C4	C4
AID/SAN SALVADOR	D12001	cv5	cv5	cv5	* Q2 C5	C5	C5
	D12001	co2	co2	co2	--	--	--
	D12001	co2	co2	co2	--	--	--
	D12001	co2	co2	co2	--	--	--
AID/GUATEMALA	D12201	co3	co3	co3	--	--	--

FIGURE IX-3

FOREIGN SITES: US AGENCY FOR INTERNATIONAL DEVELOPMENT

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AID/GUATEMALA	D12201	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	D12201	cv5	cv5	cv5	• Q3 C5	C5	C5
AID/PORT AU PRINCE	D12401		• Q3 C1	C1	C1	C1	C1
	D12401	co1 (8)	co1 (8)	co1 (8)	co1 (8)	co1 (8)	co1 (8)
	D12401	cv5	cv5	cv5	cv5	cv5	cv5
	D12401	co2	--	--	--	--	--
	D12401	co2	--	--	--	--	--
	D12401	co2	--	--	--	--	--
AID/TEGUCIGALPA	D12601	co1 (13)	co1 (13)	co1 (13)	co1 (13)	co1 (13)	co1 (13)
	D12601	cv5	cv5	cv5	cv5	• Q1 C5	C5
AID/KINGSTON	D12701	co2	co2	co2	co2	--	--
	D12701	co2	co2	co2	co2	--	--
	D12701	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)
	D12701	cv4	cv4	cv4	cv4	• Q2 cv5	cv5
AID/PANAMA	D13201	co4	co4	co4	co4	--	--
	D13201	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	D13201	cv3	cv3	cv3	cv3	• Q3 cv4	cv4
AID/ASUNCION	D13401	co2	co2	co2	co2	co2	co2
AID/LIMA	D13601	co3	co3	co3	co3	--	--
	D13601	cv5	cv5	cv5	cv5	• Q4 C6	C6
	D13601	cv3	cv3	cv3	cv3	cv3	cv3
AID/GRENADA	D14409	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
AID/JAKARTA	D30601			• Q1 C3	C3	C3	C3
	D30601	co3	co3	--	--	--	--

FIGURE IX-3

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SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AID/SUVA FIJI	D31201	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	D31201				* Q4 W1 (1)	W1 (1)	W1 (1)
AID/MANILA	D31401	co4	--	--	--	--	--
	D31401	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	D31401	cv5	cv5	cv5	cv5	* Q1 C6	C6
AID/BANGKOK	D31601	co3	co3	co3	co3	--	--
	D31601	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	D31601	cv5	cv5	cv5	cv5	* Q2 C5	C5
AID/RANGOON	D33101					* Q3 C1	C1
	D33101	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	D33101				* Q1 W1 (1)	W1 (1)	W1 (1)
	D33101	co3	co3	co3	co3	--	--
AID/DHAKA	D40901	cv3	cv3	cv3	cv3	@ Q4 cv4	cv4
AID/COLOMBO	D41201	co1 (14)	co1 (14)	co1 (14)	co1 (14)	co1 (14)	co1 (14)
	D41201	cv2	cv2	cv2	* Q2 C3	C3	C3
AID/CAIRO	D41601	co4	co4	co4	--	--	--
	D41601	co1 (33)	co1 (33)	co1 (33)	co1 (33)	co1 (33)	co1 (33)
	D41601	cv5	cv5	cv5	* Q3 C6	C6	C6
	D41601	co2	co2	co2	--	--	--
	D41601	co2	co2	co2	--	--	--
	D41601	co2	co2	co2	--	--	--
	D41601	co2	co2	co2	--	--	--
	D41601	co2	co2	co2	--	--	--

FIGURE IX-3

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FOREIGN SITES: US AGENCY FOR INTERNATIONAL DEVELOPMENT 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AID/CAIRO	D41601	co2	co2	co2	--	--	--
	D41601	co2	co2	co2	--	--	--
AID/NEW DELHI	D42801	co3	co3	co3	--	--	--
	D42801	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	D42801	cv2	cv2	cv2	• Q4 cv5	cv5	cv5
AID/AMMAN	D44001	co1 (11)	co1 (11)	co1 (11)	co1 (11)	co1 (11)	co1 (11)
	D44001		• Q4 W1 (2)	W1 (2)	W1 (2)	W1 (2)	W1 (2)
	D44001			• Q2 W1 (2)	W1 (2)	W1 (2)	W1 (2)
	D44001				• Q1 W1 (1)	W1 (1)	W1 (1)
	D44001	cv3	cv3	cv3	cv3	cv3	cv3
AID/SANAA	D44101	cv3	cv3	cv3	cv3	• Q1 cv4	cv4
	D44101	co3	co3	co3	co3	--	--
AID/BEIRUT	D44601	co2	co2	co2	co2	• Q2 cv2	cv2
AID/RABAT	D45601	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	D45601	cv4	cv4	cv4	• Q2 C5	C5	C5
AID/KATHMANDU	D46001	co1 (8)	co1 (8)	co1 (8)	co1 (8)	co1 (8)	co1 (8)
	D46001	cv3	cv3	cv3	cv3	• Q3 cv5	cv5
AID/ISLAMABAD	D46201	co4	co4	co4	--	--	--
	D46201	co1 (13)	co1 (13)	co1 (13)	co1 (13)	co1 (13)	co1 (13)
	D46201	cv4	cv4	cv4	• Q3 C5	C5	C5
AID/TUNIS	D48001	co3	co3	co3	• Q4 C3	C3	C3
	D48001	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)

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FIGURE IX-3

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FOREIGN SITES: US AGENCY FOR INTERNATIONAL DEVELOPMENT 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AID/DJIBOUTI	D50401	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	D50401				• Q1 W1 (1)	W1 (1)	W1 (1)
AID/MASERU	D50701			• Q3 C1	C1	C1	C1
	D50701	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	D50701		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
AID/KINSHASA	D50801		• Q3 C1	C1	C1	C1	C1
	D50801	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)
AID/MBABANE	D50901	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)
	D50901	cv3	cv3	cv3	cv3	• Q4 C4	C4
AID/YAOUNDE	D51001	co4	co4	• Q4 C3	C3	C3	C3
	D51001	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
AID/GABORONE	D51101				• Q2 C1	C1	C1
	D51101	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	D51101		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
AID/PRAIA	D51401					• Q1 C1	C1
	D51401	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	D51401				• Q3 W1 (1)	W1 (1)	W1 (1)
AID/ADDIS ABABA	D52001				• Q4 C1	C1	C1
	D52001	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	D52001		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)

FIGURE IX-3

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FOREIGN SITES: US AGENCY FOR INTERNATIONAL DEVELOPMENT 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AID/DAKAR	D52201	co4	co4	co4	co4	• Q2 cv3	cv3
	D52201	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	D52201	co2	co2	co2	co2	--	--
AID/ACCRA	D52401			• Q1 C1	C1	C1	C1
	D52401	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
AID/BISSAU	D52701					• Q3 C1	C1
	D52701	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
AID/CONAKRY	D52801	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	D52801				• Q1 W1 (1)	W1 (1)	W1 (1)
AID/ABIDJAN	D53001	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	D53001	cv5	cv5	cv5	cv5	• Q4 C6	C6
	D53001	co2	co2	--	--	--	--
AID/N'DJAMENA	D53524					• Q1 C1	C1
	D53524	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)	co1 (6)
	D53524		• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	D53524				• Q2 W1 (1)	W1 (1)	W1 (1)
	D53524					• Q2 W1 (1)	W1 (1)
	D53524						• Q4 W1 (1)
AID/NAIROBI	D54201	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)	co1 (4)
	D54201	cv5	cv5	cv5	• Q3 C6	C6	C6
	D54201	cv3	cv3	cv3	cv3	cv3	cv3

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FIGURE IX-3

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FOREIGN SITES: US AGENCY FOR INTERNATIONAL DEVELOPMENT 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AID/NAIROBI	D54201	co3	co3	co3	--	--	--
AID/BUJUMBURA	D54301					• Q3 C1	C1
	D54301	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	D54301		• Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	D54301				• Q4 W1 (1)	W1 (1)	W1 (1)
AID/KIGALI	D54401				• Q1 C1	C1	C1
	D54401	co1 (9)	co1 (9)	co1 (9)	co1 (9)	co1 (9)	co1 (9)
	D54401		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	D54401			• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
AID/MONROVIA	D54801	co4	co4	• Q3 C3	C3	C3	C3
AID/ANTANANARIVO	D55401	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)	co1 (2)
	D55401				• Q2 W1 (1)	W1 (1)	W1 (1)
AID/BAMAKO	D55501		• Q3 C1	C1	C1	C1	C1
	D55501	co1 (11)	co1 (11)	co1 (11)	co1 (11)	co1 (11)	co1 (11)
AID/NOUAKCHOTT	D55701			• Q4 C1	C1	C1	C1
	D55701	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
AID/MAPUTO	D55801	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	D55801			• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)
AID/NIAMEY	D55901	co4	co4	• Q2 C4	C4	C4	C4
	D55901	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)

FIGURE IX-3

FOREIGN SITES: US AGENCY FOR INTERNATIONAL DEVELOPMENT 07/31/88

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AID/LAGOS	D56001	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
AID/FREETOWN	D56101	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
AID/MOGADISHU	D56201	co4	co4	co4	co4	co4	co4
	D56201	cv5	cv5	cv5	cv5	cv5	cv5
AID/LUSAKA	D56301				• Q3 C1	C1	C1
	D56301	co1 (10)	co1 (10)	co1 (10)	co1 (10)	co1 (10)	co1 (10)
	D56301		• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	D56301			• Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	D56301				• Q4 W1 (1)	W1 (1)	W1 (1)
AID/LILONGWE	D56401	co4	co4	• Q4 C1	C1	C1	C1
	D56401	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)	co1 (5)
	D56401		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
AID/HARARE	D57401	co4	co4	co4	--	--	--
	D57401	cv2	cv2	cv2	• Q1 C4	C4	C4
AID/KHARTOUM	D57501	cv5	cv5	cv5	cv5	• Q4 C6	C6
	D57501	cv5	cv5	cv5	cv5	--	--
	D57501	co2	co2	--	--	--	--
	D57501	co2	co2	--	--	--	--
	D57501	co2	co2	--	--	--	--
AID/DAR ES SALAAM	D57601		• Q3 C1	C1	C1	C1	C1
AID/BANJUL	D57701			• Q1 C1	C1	C1	C1
	D57701	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)

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FIGURE IX-3

FOREIGN SITES: US AGENCY FOR INTERNATIONAL DEVELOPMENT 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
AID/BANJUL	D57701			* Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)
AID/LOME	D57801					* Q1 C1	C1
	D57801	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
	D57801	co2	co2	co2	co2	--	--
	D57801	co2	co2	co2	co2	--	--
AID/KAMPALA	D58201				* Q2 C1	C1	C1
	D58201	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)	co1 (3)
	D58201			* Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)
AID/PRETORIA	D58401	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)	co1 (1)
AID/OUAGADOUGOU	D58501		* Q4 C1	C1	C1	C1	C1
	D58501	co1 (11)	co1 (11)	co1 (11)	co1 (11)	co1 (11)	co1 (11)

FIGURE IX-3

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FOREIGN TARGET SYSTEMS (CUMULATIVE)

07/31/86

US AGENCY FOR INTERNATIONAL DEVELOPMENT

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	10	17	28	29	30
C1	0	5	10	15	22	22
C2	0	0	0	0	0	0
C3	0	0	3	5	5	5
C4	0	0	1	2	6	6
C5	0	1	1	5	8	8
C6	0	0	0	2	6	6
SUB-TOTAL	0	16	32	57	76	77
TEMPEST						
W1T	0	0	0	0	0	0
C3T	0	0	0	0	0	0
C4T	0	0	0	0	0	0
C5T	0	0	0	0	0	0
C6T	0	0	0	0	0	0
SUB-TOTAL	0	0	0	0	0	0
TOTAL TARGET SYSTEMS	0	16	32	57	76	77

FIGURE IX-3

FOREIGN ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US AGENCY FOR INTERNATIONAL DEVELOPMENT

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST							
W1		Q1	3	1	5	0	0
		Q2	1	4	2	1	0
		Q3	1	2	1	0	0
		Q4	5	0	3	0	1
	SUB-TOTAL		10	7	11	1	1
C1		Q1	0	2	1	3	0
		Q2	0	0	2	0	0
		Q3	4	1	1	3	0
		Q4	1	2	1	1	0
	SUB-TOTAL		5	5	5	7	0
C2		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C3		Q1	0	1	0	0	0
		Q2	0	0	1	0	0
		Q3	0	1	0	0	0
		Q4	0	1	1	0	0
	SUB-TOTAL		0	3	2	0	0
C4		Q1	0	0	1	1	0
		Q2	0	1	0	0	0
		Q3	0	0	0	1	0
		Q4	0	0	0	2	0
	SUB-TOTAL		0	1	1	4	0

FIGURE IX-3

FOREIGN ACQUISITIONS (NON-CUMULATIVE) 07/31/86

US AGENCY FOR INTERNATIONAL DEVELOPMENT

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	1	0	0	1	0
	Q2	0	0	2	1	0
	Q3	0	0	2	1	0
	Q4	0	0	0	0	0
SUB-TOTAL		1	0	4	3	0
C6	Q1	0	0	0	1	0
	Q2	0	0	0	0	0
	Q3	0	0	2	0	0
	Q4	0	0	0	3	0
SUB-TOTAL		0	0	2	4	0
TOTAL NON-TEMPEST ACQUISITIONS		16	16	25	19	1

FIGURE IX-3

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FOREIGN ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US AGENCY FOR INTERNATIONAL DEVELOPMENT

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST							
M1T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C3T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C4T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C5T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C6T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
TOTAL TEMPEST ACQUISITIONS			0	0	0	0	0
TOTAL ACQUISITIONS			16	16	25	19	1

FIGURE IX-3

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DOMESTIC AND FOREIGN TARGET SYSTEMS (CUMULATIVE) 07/31/86

US AGENCY FOR INTERNATIONAL DEVELOPMENT

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	11	18	29	30	31
C1	0	5	10	15	22	22
C2	0	0	0	0	0	0
C3	0	0	6	8	10	10
C4	0	1	5	7	12	12
C5	0	3	3	9	12	12
C6	0	0	0	2	6	6
SUB-TOTAL	0	20	42	70	92	93
TEMPEST						
W1T	0	0	0	0	0	0
C3T	0	0	0	0	0	0
C4T	0	0	0	0	0	0
C5T	0	0	0	0	0	0
C6T	0	0	0	0	0	0
SUB-TOTAL	0	0	0	0	0	0
TOTAL TARGET SYSTEMS	0	20	42	70	92	93

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FIGURE IX-3

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US AGENCY FOR INTERNATIONAL DEVELOPMENT

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST							
W1		Q1	4	1	5	0	0
		Q2	1	4	2	1	0
		Q3	1	2	1	0	0
		Q4	5	0	3	0	1
	SUB-TOTAL		11	7	11	1	1
C1		Q1	0	2	1	3	0
		Q2	0	0	2	0	0
		Q3	4	1	1	3	0
		Q4	1	2	1	1	0
	SUB-TOTAL		5	5	5	7	0
C2		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C3		Q1	0	2	0	1	0
		Q2	0	0	1	1	0
		Q3	0	2	0	0	0
		Q4	0	2	1	0	0
	SUB-TOTAL		0	6	2	2	0
C4		Q1	0	0	1	1	0
		Q2	0	2	0	0	0
		Q3	0	1	1	1	0
		Q4	1	1	0	3	0
	SUB-TOTAL		1	4	2	5	0

FIGURE IX-3

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US AGENCY FOR INTERNATIONAL DEVELOPMENT

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	2	0	0	1	0
	Q2	0	0	3	1	0
	Q3	1	0	2	1	0
	Q4	0	0	1	0	0
SUB-TOTAL		3	0	6	3	0
C6	Q1	0	0	0	1	0
	Q2	0	0	0	0	0
	Q3	0	0	2	0	0
	Q4	0	0	0	3	0
SUB-TOTAL		0	0	2	4	0
TOTAL NON-TEMPEST ACQUISITIONS		20	22	28	22	1

FIGURE IX-3

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US AGENCY FOR INTERNATIONAL DEVELOPMENT

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST						
W1T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C3T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C4T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C5T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C6T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
TOTAL TEMPEST ACQUISITIONS		0	0	0	0	0
TOTAL ACQUISITIONS		20	22	28	22	1

FIGURE IX-3

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DOMESTIC SITES: US PEACE CORPS 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
PEACE CORPS/M/IRM	I00010		* Q3 C1	C1	C1	C1	C1
	I00010					* Q2 C1	C1
	I00010		* Q4 C1	C1	C1	C1	C1
	I00010					* Q3 C1	C1
PEACE CORPS/IO/AF	I00020		* Q3 C1	C1	C1	C1	C1
	I00020					* Q4 C1	C1
IO/NANEAP	I00030		* Q4 C1	C1	C1	C1	C1
	I00030					* Q1 C1	C1
IO/IA	I00040		* Q3 C1	C1	C1	C1	C1
	I00040					* Q2 C1	C1

FIGURE IX-3

DOMESTIC TARGET SYSTEMS (CUMULATIVE)

US PEACE CORPS

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	0	0	0	0	0
C1	0	5	5	5	10	10
C2	0	0	0	0	0	0
C3	0	0	0	0	0	0
C4	0	0	0	0	0	0
C5	0	0	0	0	0	0
C6	0	0	0	0	0	0
SUB-TOTAL	0	5	5	5	10	10
TEMPEST						
W1T	0	0	0	0	0	0
C3T	0	0	0	0	0	0
C4T	0	0	0	0	0	0
C5T	0	0	0	0	0	0
C6T	0	0	0	0	0	0
SUB-TOTAL	0	0	0	0	0	0
TOTAL TARGET SYSTEMS	0	5	5	5	10	10

FIGURE IX-3

DOMESTIC ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US PEACE CORPS

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C1	Q1	0	0	0	1	0
	Q2	0	0	0	2	0
	Q3	3	0	0	1	0
	Q4	2	0	0	1	0
SUB-TOTAL		5	0	0	5	0
C2	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C3	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C4	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0

FIGURE IX-3

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DOMESTIC ACQUISITIONS (NON-CUMULATIVE)

US PEACE CORPS

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C6	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
TOTAL NON-TEMPEST ACQUISITIONS		5	0	0	5	0

FIGURE IX-3

DOMESTIC ACQUISITIONS (NON-CUMULATIVE) 07/31/86

US PEACE CORPS

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST							
W1T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C3T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C4T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C5T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C6T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
TOTAL TEMPEST ACQUISITIONS			0	0	0	0	0
TOTAL ACQUISITIONS			5	0	0	5	0

FIGURE IX-3

FOREIGN SITES: US PEACE CORPS

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
KOLONIA (MICRONESIA)	J00401			* Q4 C1	C1	C1	C1
	J00401						* Q1 C1
NUKU'ALOFA (TONGA)	J00421			* Q1 C1	C1	C1	C1
	J00421						* Q2 C1
HONIARA (KIRABATI)	J00441			* Q2 C1	C1	C1	C1
	J00441						* Q3 C1
APIA (WEST SAMOA)	J00491			* Q3 C1	C1	C1	C1
	J00491						* Q4 C1
BELIZE CITY	J10901			* Q4 C1	C1	C1	C1
	J10901						* Q1 C1
BRIDGETOWN	J11101		* Q4 C1	C1	C1	C1	C1
	J11101					* Q3 C1	C1
SAN JOSE	J11201			* Q1 C1	C1	C1	C1
	J11201						* Q2 C1
SANTO DOMINGO	J11601			* Q2 C1	C1	C1	C1
	J11601						* Q3 C1
QUITO	J11801		* Q3 C1	C1	C1	C1	C1
	J11801					* Q4 C1	C1
GUATEMALA	J12201			* Q3 C1	C1	C1	C1
	J12201						* Q4 C1
PORT AU PRINCE	J12401			* Q4 C1	C1	C1	C1
	J12401						* Q1 C1
TEGUCIGALPA	J12601		* Q4 C1	C1	C1	C1	C1
	J12601					* Q1 C1	C1
KINGSTON	J12701			* Q1 C1	C1	C1	C1
	J12701						* Q2 C1
ASUNCION	J13401			* Q2 C1	C1	C1	C1

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FIGURE IX-3

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FOREIGN SITES: US PEACE CORPS

07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
ASUNCION	J13401						• Q3 C1
SUVA	J31201			• Q3 C1	C1	C1	C1
	J31201						• Q4 C1
MANILA	J31401		• Q3 C1	C1	C1	C1	C1
	J31401					• Q2 C1	C1
BANGKOK	J31601		• Q4 C1	C1	C1	C1	C1
	J31601					• Q3 C1	C1
PORT MORESBY	J32601		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	J32601					• Q4 W1 (1)	W1 (1)
COLOMBO	J41201		• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	J41201					• Q1 W1 (1)	W1 (1)
SANAA	J44102			• Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	J44102					• Q2 W1 (1)	W1 (1)
RABAT	J45601			• Q1 C1	C1	C1	C1
	J45601						• Q1 C1
KATHMANDU	J46001		• Q3 C1	C1	C1	C1	C1
	J46001					• Q3 C1	C1
TUNIS	J48001			• Q2 C1	C1	C1	C1
	J48001						• Q2 C1
MASERU	J50701			• Q3 C1	C1	C1	C1
	J50701						• Q3 C1
KINSHASA	J50801		• Q4 C1	C1	C1	C1	C1
	J50801					• Q4 C1	C1
MBABANE	J50901		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)

FIGURE IX-3

FOREIGN SITES: US PEACE CORPS 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
MBABANE	J50901					* Q1 W1 (1)	W1 (1)
YAOUNDE	J51001			* Q4 C1	C1	C1	C1
	J51001						* Q4 C1
GABARONE	J51101			* Q1 C1	C1	C1	C1
	J51101						* Q1 C1
BANGUI	J51201			* Q2 C1	C1	C1	C1
	J51201						* Q2 C1
COTONOU	J51801			* Q3 C1	C1	C1	C1
	J51801						* Q3 C1
DAKAR	J52201			* Q4 C1	C1	C1	C1
	J52201						* Q4 C1
LIBREVILLE	J52301			* Q1 C1	C1	C1	C1
	J52301						* Q1 C1
ACCRA	J52401			* Q2 C1	C1	C1	C1
	J52401						* Q2 C1
NAIROBI	J54201		* Q3 C1	C1	C1	C1	C1
	J54201					* Q2 C1	C1
BUJUMBURA	J54301		* Q4 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	J54301					* Q3 W1 (1)	W1 (1)
KIGALI	J54401		* Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	J54401					* Q4 W1 (1)	W1 (1)
MONROVIA	J54801			* Q3 C1	C1	C1	C1
	J54801						* Q3 C1
BAMAKO	J55501			* Q4 C1	C1	C1	C1

FIGURE IX-3

FOREIGN SITES: US PEACE CORPS 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
BAMAKO	J55501						• Q4 C1
NAUAKCHOTT	J55701			• Q1 C1	C1	C1	C1
	J55701						• Q1 C1
NIAMEY	J55901		• Q3 C1	C1	C1	C1	C1
	J55901					• Q1 C1	C1
FREETOWN	J56101		• Q4 C1	C1	C1	C1	C1
	J56101					• Q2 C1	C1
LILONGWE	J56401			• Q2 C1	C1	C1	C1
	J56401						• Q2 C1
VICTORIA	J56901		• Q1 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	J56901					• Q3 W1 (1)	W1 (1)
MALABO	J57000			• Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)
	J57000					• Q4 W1 (1)	W1 (1)
DAR ES SALAAM	J57601			• Q4 C1	C1	C1	C1
	J57601						• Q3 C1
BANJUL	J57701		• Q2 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	J57701					• Q1 W1 (1)	W1 (1)
LOME	J57801			• Q1 C1	C1	C1	C1
	J57801						• Q4 C1
OUAGADOUGOU	J58501			• Q2 C1	C1	C1	C1
	J58501						• Q1 C1
P/CORPS UNASSIGNED	J99999			• Q3 C1	C1	C1	C1
	J99999						• Q2 C1
	J99999			• Q4 C1	C1	C1	C1

FIGURE IX-3

FOREIGN SITES: US PEACE CORPS 07/31/86

SITE	ORG CODE	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
P/CORPS UNASSIGNED	J99999						* Q3 C1
	J99999			* Q1 C1	C1	C1	C1
	J99999						* Q4 C1
	J99999			* Q2 W1 (10)	W1 (10)	W1 (10)	W1 (10)
	J99999						* Q1 W1 (10)
	J99999		* Q3 W1 (1)	W1 (1)	W1 (1)	W1 (1)	W1 (1)
	J99999					* Q2 W1 (1)	W1 (1)

FIGURE IX-3

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FOREIGN TARGET SYSTEMS (CUMULATIVE)

07/31/86

US PEACE CORPS

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	8	20	20	30	40
C1	0	10	42	42	52	84
C2	0	0	0	0	0	0
C3	0	0	0	0	0	0
C4	0	0	0	0	0	0
C5	0	0	0	0	0	0
C6	0	0	0	0	0	0
SUB-TOTAL	0	18	62	62	82	124
TEMPEST						
W1T	0	0	0	0	0	0
C3T	0	0	0	0	0	0
C4T	0	0	0	0	0	0
C5T	0	0	0	0	0	0
C6T	0	0	0	0	0	0
SUB-TOTAL	0	0	0	0	0	0
TOTAL TARGET SYSTEMS	0	18	62	62	82	124

FIGURE IX-3

FOREIGN ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US PEACE CORPS

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST							
W1		Q1	4	0	0	3	10
		Q2	2	10	0	2	0
		Q3	1	1	0	2	0
		Q4	1	1	0	3	0
	SUB-TOTAL		8	12	0	10	10
C1		Q1	0	9	0	2	8
		Q2	0	8	0	3	8
		Q3	5	7	0	3	8
		Q4	5	8	0	2	8
	SUB-TOTAL		10	32	0	10	32
C2		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C3		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C4		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0

FIGURE IX-3

FOREIGN ACQUISITIONS (NON-CUMULATIVE)

US PEACE CORPS

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C6	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
TOTAL NON-TEMPEST ACQUISITIONS		18	44	0	20	42

FIGURE IX-3

FOREIGN ACQUISITIONS (NON-CUMULATIVE) 07/31/86

US PEACE CORPS

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST						
W1T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C3T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C4T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C5T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C6T	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
TOTAL TEMPEST ACQUISITIONS		0	0	0	0	0
TOTAL ACQUISITIONS		18	44	0	20	42

FIGURE IX-3

DOMESTIC AND FOREIGN TARGET SYSTEMS (CUMULATIVE)

07/31/86

US PEACE CORPS

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	8	20	20	30	40
C1	0	15	47	47	62	94
C2	0	0	0	0	0	0
C3	0	0	0	0	0	0
C4	0	0	0	0	0	0
C5	0	0	0	0	0	0
C6	0	0	0	0	0	0
SUB-TOTAL	0	23	67	67	92	134
TEMPEST						
W1T	0	0	0	0	0	0
C3T	0	0	0	0	0	0
C4T	0	0	0	0	0	0
C5T	0	0	0	0	0	0
C6T	0	0	0	0	0	0
SUB-TOTAL	0	0	0	0	0	0
TOTAL TARGET SYSTEMS	0	23	67	67	92	134

FIGURE IX-3

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE)

US PEACE CORPS

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	Q1	4	0	0	3	10
	Q2	2	10	0	2	0
	Q3	1	1	0	2	0
	Q4	1	1	0	3	0
SUB-TOTAL		8	12	0	10	10
C1	Q1	0	9	0	3	8
	Q2	0	8	0	5	8
	Q3	8	7	0	4	8
	Q4	7	8	0	3	8
SUB-TOTAL		15	32	0	15	32
C2	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C3	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C4	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0

FIGURE IX-3

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US PEACE CORPS

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
C6	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0
SUB-TOTAL		0	0	0	0	0
TOTAL NON-TEMPEST ACQUISITIONS		23	44	0	25	42

FIGURE IX-3

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE)

07/31/86

US PEACE CORPS

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST							
W1T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C3T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C4T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C5T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
C6T		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	0	0	0
TOTAL TEMPEST ACQUISITIONS			0	0	0	0	0
TOTAL ACQUISITIONS			23	44	0	25	42

FIGURE IX-3

8020

DOMESTIC TARGET SYSTEMS (CUMULATIVE)

ALL LOCATIONS

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	230	355	438	505	576
C1	0	9	10	12	19	20
C2	0	0	1	1	1	1
C3	0	2	7	7	16	19
C4	0	11	18	19	21	21
C5	0	6	8	10	12	13
C6	0	3	6	9	10	10
SUB-TOTAL	0	261	405	496	584	660
TEMPEST						
W1T	0	2	28	33	38	43
C3T	0	3	7	12	18	21
C4T	0	3	4	5	5	8
C5T	0	3	7	9	12	14
C6T	0	0	3	6	7	10
SUB-TOTAL	0	11	49	65	80	96
TOTAL TARGET SYSTEMS	0	272	454	561	664	756

FIGURE IX-3

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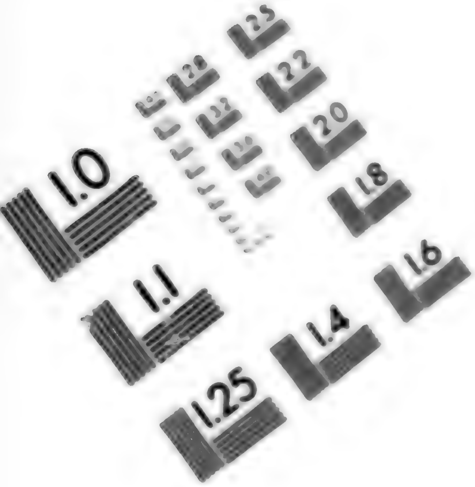
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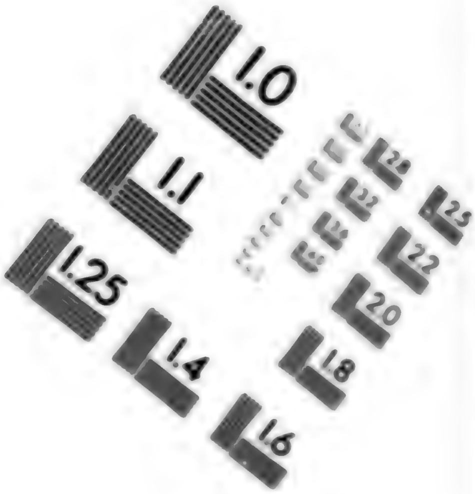
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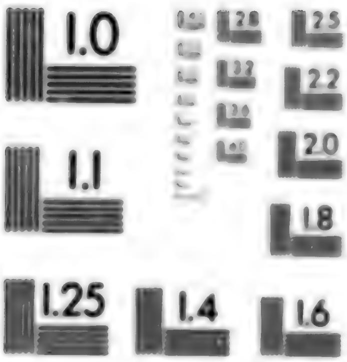
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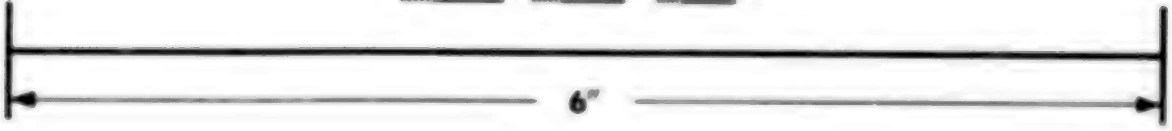
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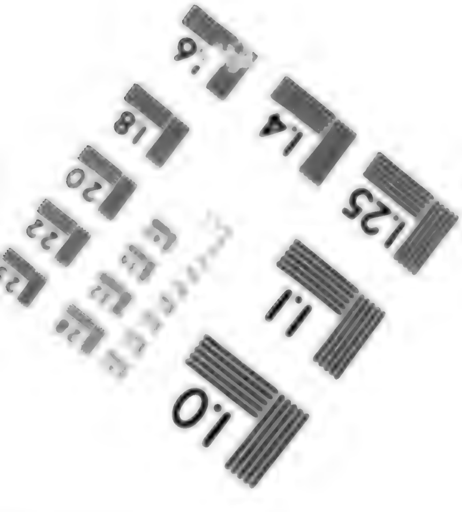
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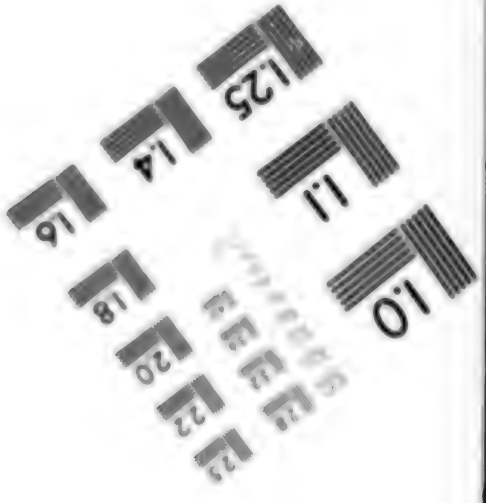
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DOMESTIC ACQUISITIONS (NON-CUMULATIVE) 07/31/86

ALL LOCATIONS

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST							
W1		Q1	37	31	18	14	25
		Q2	53	31	25	19	13
		Q3	40	39	19	15	15
		Q4	100	24	21	19	18
	SUB-TOTAL		230	125	83	67	71
C1		Q1	0	0	2	2	0
		Q2	0	0	0	2	0
		Q3	5	1	0	2	1
		Q4	4	0	0	1	0
	SUB-TOTAL		9	1	2	7	1
C2		Q1	0	0	0	0	0
		Q2	0	0	0	0	0
		Q3	0	0	0	0	0
		Q4	0	1	0	0	0
	SUB-TOTAL		0	1	0	0	0
C3		Q1	0	1	0	3	0
		Q2	0	0	0	3	1
		Q3	1	2	0	1	1
		Q4	1	2	0	2	1
	SUB-TOTAL		2	5	0	9	3
C4		Q1	0	1	0	1	0
		Q2	0	2	0	0	0
		Q3	6	2	1	0	0
		Q4	5	2	0	1	0
	SUB-TOTAL		11	7	1	2	0

FIGURE IX-3

802

DOMESTIC ACQUISITIONS (NON-CUMULATIVE) 07/31/86

ALL LOCATIONS

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	2	2	0	1	0
	Q2	2	0	1	1	1
	Q3	2	0	0	0	0
	Q4	0	0	1	0	0
SUB-TOTAL		6	2	2	2	1
C6	Q1	0	0	0	0	0
	Q2	0	2	2	0	0
	Q3	1	0	1	1	0
	Q4	2	1	0	0	0
SUB-TOTAL		3	3	3	1	0
TOTAL NON-TEMPEST ACQUISITIONS		261	144	91	88	76

FIGURE IX-3

DOMESTIC ACQUISITIONS (NON-CUMULATIVE) 07/31/86

ALL LOCATIONS

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST							
W1T		Q1	2	11	1	3	3
		Q2	0	6	1	1	0
		Q3	0	7	1	1	1
		Q4	0	2	2	0	1
	SUB-TOTAL		2	26	5	5	5
C3T		Q1	0	1	1	0	1
		Q2	0	1	0	2	1
		Q3	2	1	2	2	0
		Q4	1	1	2	2	1
	SUB-TOTAL		3	4	5	6	3
C4T		Q1	0	0	0	0	0
		Q2	0	0	0	0	2
		Q3	2	0	1	0	1
		Q4	1	1	0	0	0
	SUB-TOTAL		3	1	1	0	3
C5T		Q1	0	0	1	1	0
		Q2	0	1	0	1	0
		Q3	2	2	0	0	1
		Q4	1	1	1	1	1
	SUB-TOTAL		3	4	2	3	2
C6T		Q1	0	2	1	0	1
		Q2	0	0	1	1	1
		Q3	0	1	1	0	1
		Q4	0	0	0	0	0
	SUB-TOTAL		0	3	3	1	3
TOTAL TEMPEST ACQUISITIONS			11	38	16	15	16
TOTAL ACQUISITIONS			272	182	107	103	92

FIGURE IX-3

804

FOREIGN TARGET SYSTEMS (CUMULATIVE)

ALL LOCATIONS

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	159	324	447	530	611
C1	0	19	78	93	113	151
C2	0	4	5	6	6	6
C3	0	4	18	33	38	42
C4	0	15	17	21	45	45
C5	0	9	16	22	25	25
C6	0	3	7	25	33	33
SUB-TOTAL	0	213	465	647	790	913
TEMPEST						
W1T	0	35	110	145	180	215
C3T	0	0	0	1	2	4
C4T	0	15	25	33	39	43
C5T	0	0	1	2	4	6
C6T	0	0	1	3	5	6
SUB-TOTAL	0	50	137	184	230	274
TOTAL TARGET SYSTEMS	0	263	602	831	1,020	1,187

FIGURE IX-3

FOREIGN ACQUISITIONS (NON-CUMULATIVE) 07/31/86

ALL LOCATIONS

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST							
W1		Q1	43	38	31	21	26
		Q2	37	43	35	21	19
		Q3	32	43	29	16	15
		Q4	47	41	28	25	21
	SUB-TOTAL		159	165	123	83	81
C1		Q1	0	18	4	6	9
		Q2	0	14	4	3	9
		Q3	12	13	3	8	10
		Q4	7	14	4	3	10
	SUB-TOTAL		19	59	15	20	38
C2		Q1	0	0	0	0	0
		Q2	0	0	1	0	0
		Q3	3	0	0	0	0
		Q4	1	1	0	0	0
	SUB-TOTAL		4	1	1	0	0
C3		Q1	0	3	5	2	1
		Q2	0	2	5	1	2
		Q3	3	3	4	1	1
		Q4	1	6	1	1	0
	SUB-TOTAL		4	14	15	5	4
C4		Q1	0	0	1	6	0
		Q2	0	1	1	5	0
		Q3	7	1	1	6	0
		Q4	8	0	1	7	0
	SUB-TOTAL		15	2	4	24	0

FIGURE IX-3

806

FOREIGN ACQUISITIONS (NON-CUMULATIVE) 07/31/86

ALL LOCATIONS

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST							
C5		Q1	2	1	0	1	0
		Q2	0	1	3	1	0
		Q3	4	2	3	1	0
		Q4	3	3	0	0	0
	SUB-TOTAL		9	7	6	3	0
C6		Q1	0	1	2	1	0
		Q2	0	0	3	2	0
		Q3	3	1	6	1	0
		Q4	0	2	7	4	0
	SUB-TOTAL		3	4	18	8	0
TOTAL NON-TEMPEST ACQUISITIONS			213	252	182	143	123

FIGURE IX-3

807

FOREIGN ACQUISITIONS (NON-CUMULATIVE)

07/31/86

ALL LOCATIONS

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST							
W1T		Q1	35	40	0	0	0
		Q2	0	0	0	35	0
		Q3	0	0	0	0	0
		Q4	0	35	35	0	35
	SUB-TOTAL		35	75	35	35	35
C3T		Q1	0	0	1	0	1
		Q2	0	0	0	0	1
		Q3	0	0	0	1	0
		Q4	0	0	0	0	0
	SUB-TOTAL		0	0	1	1	2
C4T		Q1	5	2	2	2	1
		Q2	0	3	2	1	1
		Q3	5	3	2	1	1
		Q4	5	2	2	2	1
	SUB-TOTAL		15	10	8	6	4
C5T		Q1	0	1	0	1	0
		Q2	0	0	1	0	0
		Q3	0	0	0	0	1
		Q4	0	0	0	1	1
	SUB-TOTAL		0	1	1	2	2
C8T		Q1	0	0	0	0	1
		Q2	0	1	0	1	0
		Q3	0	0	1	1	0
		Q4	0	0	1	0	0
	SUB-TOTAL		0	1	2	2	1
TOTAL TEMPEST ACQUISITIONS			50	87	47	46	44
TOTAL ACQUISITIONS			263	339	229	189	167

FIGURE IX-3

DOMESTIC AND FOREIGN TARGET SYSTEMS (CUMULATIVE)

07/31/86

ALL LOCATIONS

SYSTEM	CURRENT YEAR	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
W1	0	389	679	885	1,035	1,187
C1	0	28	88	105	132	171
C2	0	4	6	7	7	7
C3	0	6	25	40	54	61
C4	0	26	35	40	66	66
C5	0	15	24	32	37	38
C6	0	6	13	34	43	43
SUB-TOTAL	0	474	870	1,143	1,374	1,573
TEMPEST						
W1T	0	37	138	178	218	258
C3T	0	3	7	13	20	25
C4T	0	18	29	38	44	51
C5T	0	3	8	11	16	20
C6T	0	0	4	9	12	16
SUB-TOTAL	0	61	186	249	310	370
TOTAL TARGET SYSTEMS	0	535	1,056	1,392	1,684	1,943

FIGURE IX-3

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE)

ALL LOCATIONS

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST							
W1		Q1	80	69	49	35	51
		Q2	90	74	60	40	32
		Q3	72	82	48	31	30
		Q4	147	65	49	44	39
	SUB-TOTAL		389	290	206	150	152
C1		Q1	0	18	6	8	9
		Q2	0	14	4	5	9
		Q3	17	14	3	10	11
		Q4	11	14	4	4	10
	SUB-TOTAL		28	60	17	27	39
C2		Q1	0	0	0	0	0
		Q2	0	0	1	0	0
		Q3	3	0	0	0	0
		Q4	1	2	0	0	0
	SUB-TOTAL		4	2	1	0	0
C3		Q1	0	4	5	5	1
		Q2	0	2	5	4	3
		Q3	4	5	4	2	2
		Q4	2	8	1	3	1
	SUB-TOTAL		6	19	15	14	7
C4		Q1	0	1	1	7	0
		Q2	0	3	1	5	0
		Q3	13	3	2	6	0
		Q4	13	2	1	8	0
	SUB-TOTAL		26	9	5	26	0

FIGURE IX-3

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE)

ALL LOCATIONS

SYSTEM	QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
NON-TEMPEST						
C5	Q1	4	3	0	2	0
	Q2	2	1	4	2	1
	Q3	6	2	3	1	0
	Q4	3	3	1	0	0
SUB-TOTAL		15	9	8	5	1
C6	Q1	0	1	2	1	0
	Q2	0	2	5	2	0
	Q3	4	1	7	2	0
	Q4	2	3	7	4	0
SUB-TOTAL		6	7	21	9	0
TOTAL NON-TEMPEST ACQUISITIONS		474	396	273	231	199

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FIGURE IX-3

811

DOMESTIC AND FOREIGN ACQUISITIONS (NON-CUMULATIVE) 07/31/86

ALL LOCATIONS

SYSTEM		QUARTER	CONTRACT YEAR 1	CONTRACT YEAR 2	CONTRACT YEAR 3	CONTRACT YEAR 4	CONTRACT YEAR 5
TEMPEST							
W1T		Q1	37	51	1	3	3
		Q2	0	6	1	36	0
		Q3	0	7	1	1	1
		Q4	0	37	37	0	36
	SUB-TOTAL		37	101	40	40	40
C3T		Q1	0	1	2	0	2
		Q2	0	1	0	2	2
		Q3	2	1	2	3	0
		Q4	1	1	2	2	1
	SUB-TOTAL		3	4	6	7	5
C4T		Q1	5	2	2	2	1
		Q2	0	3	2	1	3
		Q3	7	3	3	1	2
		Q4	6	3	2	2	1
	SUB-TOTAL		18	11	9	6	7
C5T		Q1	0	1	1	2	0
		Q2	0	1	1	1	0
		Q3	2	2	0	0	2
		Q4	1	1	1	2	2
	SUB-TOTAL		3	5	3	5	4
C6T		Q1	0	2	1	0	2
		Q2	0	1	1	2	1
		Q3	0	1	2	1	1
		Q4	0	0	1	0	0
	SUB-TOTAL		0	4	5	3	4
TOTAL TEMPEST ACQUISITIONS			61	125	63	61	60
TOTAL ACQUISITIONS			535	521	336	292	259

FIGURE IX-3

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
010101	CY2	co2T	010621	CY3	C6T	
010101	CY2	co2T	010621	CY3	C6T	
010101	CY2	co2T	010621	CY3	C6T	
010101	CY2	co2T	010621	CY3	C6T	
010101	CY2	co2T	010621	CY3	C6T	
010108	CY2	co3	010621	CY3	C6T	
010621	CY3	cv4T	010621	CY4	C6T	C6T was installed in CY3
010621	CY2	cv4T	010621	CY3	C6T	
010621	CY2	co3T	010621	CY3	C6T	
010622	CY2	co2T	010621	CY3	C6T	
010622	CY2	co2T	010621	CY3	C6T	
010623	CY2	co3T	010621	CY3	C6T	
011100	CY2	co2T	010621	CY3	C6T	
011100	CY2	co2T	010621	CY3	C6T	
011100	CY2	co2T	010621	CY3	C6T	
011100	CY2	co2T	010621	CY3	C6T	
011100	CY2	co2T	010621	CY3	C6T	
011100	CY2	co2T	010621	CY3	C6T	
011100	CY2	co2T	010621	CY3	C6T	

NOTE: Figure IX-4 must be used in conjunction with Figure IX-3 to determine the complete systems disposition; not independently.

Figure IX-4

DISPOSITION STATUS

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EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
011200	CY2	co2T	010621	CY3	C6T	
011500	CY2	co2T	010621	CY3	C6T	
011500	CY2	co3T	010621	CY3	C6T	
011700	CY2	co2T	010621	CY3	C6T	
012700	CY1	co4T	012700	CY2	C5T	
014010	curr	co4T	014020	CY1	C5T	
019300	CY3	co2	019300	CY4	C5T	
020100	CY3	co3	020100	CY4	C3	
031100	CY1	co4	N/A			transfer to existing equipment
031100	CY1	co4	N/A			transfer to existing equipment
061100	CY4	co4T	061000	CY5	C6T	
061300	CY4	co4T	061000	CY5	C6T	
061300	CY4	co3T	061000	CY5	C6T	

Figure IX-4 (Cont'd)

DISPOSITION STATUS

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
120100	curr	co2T	120100	CY1	C4T	
120100	curr	co3T	120100	CY1	C4T	
120200	curr	co3	120200	CY1	C3	
121200	CY2	co2T	N/A			transfer to existing equipment
121200	CY2	co2T	N/A			transfer to existing equipment
121200	CY3	co2T	N/A			transfer to existing equipment
121200	CY4	co2T	N/A			transfer to existing equipment
121200	CY4	co3T	N/A			transfer to existing equipment
121200	CY4	co3T	N/A			transfer to existing equipment
121400	curr	co3T	122200	CY1	C5T	
121700	curr	co2T	122200	CY1	C5T	
121700	curr	co2T	122200	CY1	C5T	
121800	curr	co3T	122200	CY1	C5T	

Figure IX-4 (Cont'd)

DISPOSITION STATUS

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
122100	curr	co2T	122200	CY1	C5T	
122100	curr	co2T	122200	CY1	C5T	
122100	curr	co3T	122200	CY1	C5T	
122200	curr	co3T	122200	CY1	C5T	
130101	curr	co2T	130100	CY1	C4T	
130101	curr	co3	130100	CY1	C4T	
130101	curr	co2	130100	CY1	C4T	
130200	curr	co4	130100	CY1	C4T	
130200	curr	co2T	130100	CY1	C4T	
130300	curr	co2T	130100	CY1	C4T	
130600	curr	co3T	130100	CY1	C4T	
130700	CY1	co3T	130700	CY2	C4T	
131000	CY1	co2T	130700	CY2	C4T	

Figure IX-4 (Cont'd)

DISPOSITION STATUS

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
131100	CY1	co2T	130700	CY2	C4T	
131200	CY1	co3T	130700	CY2	C4T	
131400	CY1	co2T	130700	CY2	C4T	
131600	CY1	co2T	130700	CY2	C4T	
131600	CY1	co3T	130700	CY2	C4T	
131700	CY1	co3T	130700	CY2	C4T	
131900	CY1	co2T	130700	CY2	C4T	
131900	CY1	co2T	130700	CY2	C4T	
131900	CY1	co3T	130700	CY2	C4T	
132000	CY1	co2T	130700	CY2	C4T	
132100	CY1	co3T	130700	CY2	C4T	
132100	CY1	co3T	130700	CY2	C4T	
140100	CY1	co3	140100	CY2	C5	
140100	CY1	co4	140100	CY2	C5	
140100	CY1	co3	140100	CY2	C5	
140100	CY1	co3	140100	CY2	C5	
140100	CY1	co3	140100	CY2	C5	

Figure IX-4 (Cont'd)

DISPOSITION STATUS

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
150200	CY4	co4T	150200	CY5	C6T	
150200	CY4	co4T	150200	CY5	C6T	
150200	CY4	co4T	150200	CY5	C6T	
150200	CY4	co4	150200	CY5	C6T	
150200	CY4	cv3	150200	CY5	C6T	
150200	CY4	cv4T	150200	CY5	C6T	
201100	CY4	co4	201100	CY5	C5	
208000	curr	co2	208000	CY1	C5	
208000	curr	co4	208000	CY1	C6	
208000	curr	co4	208000	CY1	C6	
208000	curr	co4	208000	CY1	C6	
208000	curr	co4	208000	CY1	C6	
209000	CY2	co4	209100	CY3	C6	
210010	CY3	co2	210100	CY4	C3	

Figure IX-4 (Cont'd)

DISPOSITION STATUS

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
210700	CY3	co2	210100	CY4	C3	
216100	CY1	co2	216100	CY2	W1	No conversion requirement envisioned
221100	curr	co4	N/A			transfer to existing equipment
251000	CY1	co2	N/A			transfer to existing equipment
270100	curr	co3	270100	CY1	C3T	
280210	CY4	co4	280210	CY5	C5	C5 was installed CY4
280210	CY2	co3	280210	CY3	C6	
280210	CY2	co3	280210	CY3	C6	
280210	CY2	co2	280210	CY3	C6	
280210	CY2	co2	280210	CY3	C6	
280210	CY2	co2	280210	CY3	C6	
310500	CY3	co2	310500	CY4	C1	
310607	CY3	co4	N/A			transfer to existing equipment

Figure IX-4 (Cont'd)

DISPOSITION STATUS

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
310612	CY4	co2	310612	CY5	C1	
310901	CY4	co2	310901	CY5	C1	
311101	CY1	co2	311101	CY2	C3	
312601	CY1	co2	N/A			transfer to existing equipment
312601	CY1	co2	N/A			transfer to existing equipment
312701	CY4	co4	312701	CY5	C3	
312801	CY4	co4	312801	CY5	C6	C6 was installed CY3
312801	CY2	co4	312801	CY3	C6	
312812	CY2	co3	N/A			transfer to existing equipment
313201	CY2	co3	313201	CY3	C3	
313801	CY3	co2	313801	CY4	C3	
314001	CY2	co4	314001	CY3	C6	
314001	CY2	cv5	314001	CY3	C6	
320601	CY2	co2	320601	CY3	C6	

Figure IX-4 (Cont'd)

DISPOSITION STATUS

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
321201	CY2	co2	321201	CY3	C6	
321201	CY4	co2	321201	CY5	C6	C6 was installed CY3
321202	CY2	co2	321202	CY3	C4	
321203	CY3	co2	N/A			transfer to existing equipment
321601	CY2	co2	321601	CY3	C4	
321802	CY1	co3	321802	CY2	C2	
323201	CY1	co2	323201	CY2	C6	
323202	CY2	co2	323202	CY3	C3	
323601	CY2	co3	323601	CY2	C6	
325001	CY2	co3	325001	CY3	C6	
325001	CY2	co2	325001	CY3	C6	
327002	curr	co3	327002	CY1	C4	

Figure IX-4 (Cont'd)

DISPOSITION STATUS

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
328201	CY1	co4	N/A			transfer to existing equipment
328202	curr	co2	328202	CY1	C2	
328401	CY1	co2	328401	CY2	C5	
328401	CY1	co2	328401	CY2	C5	
328401	CY1	co2	328401	CY2	C5	
328401	CY1	co2	328401	CY2	C5	
328401	CY1	co2	328401	CY2	C5	
330601	CY2	co2	330601	CY3	C6	
330801	CY2	co3	330801	CY3	C6	
330801	CY2	co2	330801	CY3	C6	
331301	CY2	co4	331301	CY3	C5	
331302	CY1	co2	N/A			transfer to existing equipment
331401	CY1	co3	331401	CY2	C6	
332601	CY2	co2	332601	CY3	C3	

Figure IX-4 (Cont'd)

DISPOSITION STATUS

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
350401	CY1	co2	350401	CY2	W1	no conversion requirement envisioned
350701	CY2	co2	350701	CY3	W1	no conversion requirement envisioned
350801	CY2	co2	350801	CY3	W1	no conversion requirement envisioned
351001	CY2	co2	351001	CY3	W1	no conversion requirement envisioned
351101	curr	co2	351101	CY1	W1	no conversion requirement envisioned
351101	curr	co2	351101	CY1	W1	no conversion requirement envisioned
351201	CY2	co2	351201	CY3	W1	no conversion requirement envisioned
352401	CY2	co2	352401	CY3	W1	no conversion requirement envisioned

Figure IX-4 (Cont'd)

DISPOSITION STATUS

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
354301	CY1	co2	354301	CY2	W1	no conversion requirement envisioned
354401	CY1	co2	354401	CY2	W1	no conversion requirement envisioned
354801	CY2	co2	N/A			transfer to existing equipment
354801	CY3	co2	N/A			transfer to existing equipment
355501	CY2	co2	355501	CY3	W1	no conversion requirement envisioned
355901	CY2	co2	355901	CY3	W1	no conversion requirement envisioned
356101	CY1	co2	356101	CY2	W1	no conversion requirement envisioned
356201	CY1	co4	356201	CY2	W1	no conversion requirement envisioned
356301	CY2	co2	356301	CY3	W1	no conversion requirement envisioned

Figure IX-4 (Cont'd)

DISPOSITION STATUS

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
356401	CY2	co2	356401	CY3	W1	no conversion requirement envisioned
356901	CY1	co2	356901	CY2	W1	no conversion requirement envisioned
357501	CY1	co2	357501	CY2	W1	no conversion requirement envisioned
357601	CY2	co2	357601	CY3	W1	no conversion requirement envisioned
357701	CY1	co2	357701	CY2	W1	no conversion requirement envisioned
357801	CY1	co2	357801	CY2	W1	no conversion requirement envisioned
358201	CY1	co2	358201	CY2	W1	no conversion requirement envisioned
358501	CY2	co2	358501	CY3	W1	no conversion requirement envisioned

Figure IX-4 (Cont'd)

DISPOSITION STATUS

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EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
A00130	CY2	co3	A00130	CY3	W1	no conversion requirement envisioned
A00140	CY2	co3	A00140	CY3	W1	no conversion requirement envisioned
A00160	curr	co2	A00160	CY1	C4	no conversion requirement envisioned
A00230	curr	co3	N/A			transfer to existing equipment
CC0A00	CY1	co4	CC0A00	CY2	C4	
CC0A00	CY3	co2	CC0A00	CY4	C4	C4 installed CY2
CC0A00	CY3	co2	CC0A00	CY4	C4	C4 installed CY2
CC0A00	CY3	co2	CC0A00	CY4	C4	C4 installed CY2
CD0A00	CY2	co4	CD0A00	CY3	C5	
CD0A00	CY3	co2	CD0A00	CY4	C5	C5 installed CY3
CD0A00	CY3	co2	CD0A00	CY4	C5	C5 installed CY3
CE0B00	CY1	co4	CE0B00	CY2	C4	
CE0B00	CY3	co2	CE0B00	CY4	C4	C4 installed CY2

Figure IX-4 (Cont'd)

DISPOSITION STATUS

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
CEOCOO	CY3	co2	N/A			transfer to existing equipment
CFOAOO	CY1	co2	CFOAOO	CY2	C3	
CHOAOO	curr	co4	CHOAOO	CY1	C5	
CHOAOO	CY3	co2	CHOAOO	CY4	C5	C5 was installed CY1
CHOAOO	CY3	co2	CHOAOO	CY4	C5	C5 was installed CY1
CJOAOO	CY2	co4	CJOAOO	CY3	C5	
COOAOO*	CY3	co2	COOAOO	CY4	C3	
COOAOO	CY3	co2	COOAOO	CY4	C3	
COOAOO	CY3	co2	COOAOO	CY4	C3	
COOAOO	CY3	co2	COOAOO	CY4	C3	
CO0000*	CY3	co2	N/A			transfer to existing equipment
CO0000	CY3	co2	N/A			transfer to existing equipment
CO0000	CY3	co2	N/A			transfer to existing equipment
CO0000	CY3	co2	N/A			transfer to existing equipment
CO0000	CY3	co2	N/A			transfer to existing equipment
CO0000	CY3	co2	N/A			transfer to existing equipment
CO0000	CY3	co2	N/A			transfer to existing equipment

* Please note that the second character of these Org Codes is an alpha O.

Figure IX-4 (Cont'd)

DISPOSITION STATUS

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EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
C00020*	CY3	co2	N/A			transfer to existing equipment
C00030*	CY3	co2	N/A			transfer to existing equipment
D10401	CY3	co3	D10401	CY4	C4	
D10901	CY3	co2	D10901	CY4	C1	
D10901	CY3	co2	D10901	CY4	C1	
D11101	CY3	co4	D11101	CY4	C4	
D11201	CY3	co3	N/A			transfer to existing equipment
D11201	CY3	co2	N/A			transfer to existing equipment
D11201	CY3	co2	N/A			transfer to existing equipment
D12001	CY2	co2	D12001	CY3	C5	
D12001	CY2	co2	D12001	CY3	C5	
D12001	CY2	co2	D12001	CY3	C5	
D12201	CY2	co3	D12201	CY3	C5	

* Please note that the second character of these Org Codes is an alpha O.

Figure IX-4 (Cont'd)

DISPOSITION STATUS

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EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
D12401	curr	co2	N/A			transfer to existing equipment
D12401	curr	co2	N/A			transfer to existing equipment
D12401	curr	co2	N/A			transfer to existing equipment
D12701	CY3	co2	N/A			transfer to existing equipment
D12701	CY3	co2	N/A			transfer to existing equipment
D13201	CY3	co2	N/A			transfer to existing equipment
D13601	CY3	co3	D13601	CY4	C6	
D30601	CY1	co3	D30601	CY2	C3	
D31401	curr	co4	N/A			transfer to existing equipment
D31601	CY3	co3	D31601	CY4	C5	
D33101	CY3	co3	D33101	CY4	C1	
D41601	CY2	co4	D41601	CY3	C6	
D41601	CY2	co2	D41601	CY3	C6	
D41601	CY2	co2	D41601	CY3	C6	
D41601	CY2	co2	D41601	CY3	C6	

Figure IX-4 (Cont'd)

DISPOSITION STATUS

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EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
D41601	CY2	co2	D41601	CY3	C6	
D41601	CY2	co2	D41601	CY3	C6	
D41601	CY2	co2	D41601	CY3	C6	
D41601	CY2	co2	D41601	CY3	C6	
D42801	CY2	co3	N/A			transfer to existing equipment
D44101	CY3	co3	N/A			transfer to existing equipment
D46201	CY2	co4	D46201	CY3	C5	
D52201	CY3	co2	N/A			transfer to existing equipment
D53001	CY1	co2	N/A			
D54201	CY2	co3	D54201	CY3	C6	
D57401	CY2	co4	D57401	CY3	C4	
D57501	CY1	co2	N/A			transfer to existing equipment
D57501	CY1	co2	N/A			transfer to existing equipment
D57501	CY1	co2	N/A			transfer to existing equipment

Figure IX-4 (Cont'd)

DISPOSITION STATUS

EXISTING EQUIPMENT			TARGET EQUIPMENT			
ORG CODE	YEAR	CPU	ORG CODE	YEAR	CPU	COMMENTS
D57801	CY3	co2	D57801	CY4	C1	
D57801	CY3	co2	D57801	CY4	C1	

Figure IX-4 (Cont'd)

DISPOSITION STATUS

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SECTION J

ATTACHMENT X

MANAGEMENT PLAN

1. GENERAL DESCRIPTION

Section C of this Solicitation, in Subsections C.13, C.14, C.15, C.16 and C.17 referred to this Attachment X, Management Plan. Each Offeror must submit a detailed Management Plan to be considered technically responsive to this Solicitation. Further, Section M to this solicitation explains how the Management Plan is considered in the overall evaluation. The Management Plan consists of seven parts:

- Installation Plan
- Contingency Plan
- Maintenance Plan
- Training Plan
- Technical Assistance Plan
- Documentation and Technical Information Plan.
- Software Support Plan

Each part of the Management Plan should demonstrate a thorough understanding of the Department of State requirements. Particular emphasis should be placed on any anticipated problem(s) and the Offeror's proposed method to avoid or to resolve the problem(s). The Management Plan must also detail the controls that will be used to assure that the systems will be installed according to the schedule stated in the individual purchase orders, that conversion will be properly coordinated with delivery of equipment, that contingencies are foreseen and provided for, that maintenance is timely and responsive, that training and technical assistance is timely and of high quality, and that documentation and technical publications are kept up-to-date and are of high quality.

2. INSTALLATION PLAN

The Installation Plan will address in detail the Offeror's approach to installation. The specific items that must be addressed include, but are not limited to, the following:

- Coordinating with the Department of State or other user agency to ensure accurate site preparation

- Preparing a diagram pictorially displaying the siting of all equipment components at each location upon notification of

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the square footage available. The diagram will show all electrical connections, type outlets required, and dedicated/isolated dedicated circuit requirements

- Alerting DOS and other user Agencies of the specific site preparation requirements.
- Alerting DOS and other user Agencies of unique requirements/considerations at the specific location including the need for parallel operations
- Stating how the hardware, software and communications will be tested for proper operation after installation
- Stating how the vendor-provided software will be installed and tested for proper operation, and further how the interface with applications software will be tested
- Providing for backup and recovery prior to "turnover" to user personnel
- Stating how the communications will be tested
- Stating how the system will be optimized for the specific site, e.g., spooling for printing and file loading on disks
- The Quality Assurance Plan at the point of manufacturing prior to shipment
- Providing on-site assistance, as required, or "hot-line" telephone.
- Technical Assistance available to the Government prior to placing an order, pertaining to the validity of the configuration to be ordered.

Each Offeror is urged to provide other considerations for installation to demonstrate an awareness of the problems.

4. CONTINGENCY PLAN

Each Offeror must describe the plan for contingency operations. The Contingency Plan must address the following items, but the plan is not limited to these:

- Non-arrival of equipment/software
- Partial/Incomplete arrival of Equipment/software
- Arrival of equipment/software in a damaged condition
- Equipment/software/communications failures

- Power failures
- Non-arrival of vendor personnel
- Insufficient spare parts
- Incompatible equipment/software
- Wrong software release version
- "Hot-line" contact point for installation or post-installation problems
- Downtime when it exceeds that which is specified in Figure F-1.

Each Offeror is to address other contingencies that may be foreseen.

5. EQUIPMENT MAINTENANCE PLAN

Each Offeror must describe the plan for providing maintenance at all locations. The specific items that are to be addressed include, but are not limited to, the following:

- Provide number and type (by type processor) of maintenance personnel that will provide maintenance at all locations

- Describe how remedial maintenance services will be provided by geographical area as described in Subsection C.14.

- Provide detailed description of scope of preventive maintenance, and what effect, if any, there will be on system operation. Provide recommended preventive maintenance schedules for each model of equipment, i.e., CPUs (C1 through C6), printers (P1 through P7), etc.

- Identify specific devices recommended for special attention for preventive maintenance

- Provide contact point(s) for the Government to report equipment/software outages by geographical areas as described in Subsection C.14

- Provide a description of Offeror's worldwide maintenance capability, specifically what backup is provided by the vendor to their own field engineers

- Describe how the "home" office will monitor maintenance service

- A description of space, power, cooling and other special requirements that the Government must furnish for the maintenance equipment or engineering area

- A description of how the Offeror will provide maintenance in support of the contract to result from this Solicitation.

Each Offeror is to describe other actions which may be foreseen or provided.

6. TRAINING PLAN

The Training Plan will provide in detail the Offeror's approach to providing training for Management (M), Professional (P), ADP Specialist (S), Administrative/Clerical (C), and Other (O) (Refer to Subsection C.1.1 and C.15 of this solicitation). The specific items that must be addressed include, but are not limited to, the following:

- The Offeror's administrative and managerial approach to include locations for providing both initial training (before or at time of installation), annual, Foreign TEMPEST maintenance, and special request training for all worldwide locations
- Training Syllabus that addresses all subjects shown in Figure C.10, and other subjects that the Offeror recommends
- Content of each course, duration of course, and the materials to be given to the student
- Recommended number of students per lesson
- Overall goals of training, and the objectives of each course and what the student will know and understand in terms of skill and knowledge at the conclusion of the training
- Methods to be used in the selection of instructors (knowledge, skills and experience)
- Methods of training to be used, e.g. lecture, self-paced study program, computer-based training, case study, workshop, hands-on, etc.
- Training evaluation process
- Training aids provided.

Each Offeror is encouraged to provide any additional information that will enhance the Training Plan.

7. TECHNICAL ASSISTANCE PLAN

The Technical Assistance Plan will describe how the Offeror proposes to provide technical assistance as required by Subsection C.13 of this solicitation. This plan will include, but is not limited to, the following subjects:

- Description of how Technical Assistance will be provided for the worldwide locations
- Methods to be used in the selection of personnel (knowledge, skills and experience)
- Relationship to Offeror (i.e., direct payroll, subcontractor, distributor, etc.)
- The extent of their authority to render assistance, and, if a problem with installation, hardware or software is reported, to obtain a solution quickly
- Type support they will provide and where
- Description of how "hot-line" service for technical assistance will be provided.

Each Offeror is to provide any additional information to describe how technical assistance will be provided.

8. DOCUMENTATION AND TECHNICAL INFORMATION PLAN

Each Offeror will describe all documentation and other technical information that will be provided and how it will be provided. The plan will include, but is not limited to, the following information:

- A list of all documentation and technical publications by title, document number, if applicable, and publication and/or revision date (differentiate those manuals required by Subsection C.16 from those additional subjects to be provided by the Offeror).
- A description of how and where each manual or publication will be provided
- A description of how additional copies may be obtained
- A description of how the manuals and publications will be kept up-to-date.

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- A description of the documentation directory and cross-reference index
- A description of the subscription service and how it will be provided.

Each Offeror is to provide any additional information that will enhance the Documentation and Technical Information Plan.

9. SOFTWARE SUPPORT PLAN

The Software Support Plan will describe how the Offeror proposes to provide software support as required by Subsection C.17. This plan will include, but is not limited to, the following information:

- How the DOS is to report software problems to the vendor from the worldwide locations ("Hot-line," etc.)
- How the vendor verifies software problems
- What process is followed for prioritizing software problems and for problem resolution, testing and dissemination of corrections
- How the DOS is to continue operations when a new release causes problems
- How the DOS is to initiate request(s) for modifications or improvements
- How the "Home-Office" monitors reported software problems
- How the DOS is notified of software problems as reported by other customers.
- How the Offeror will coordinate the wordwide dissemination and support to insure that all sites have the same version.

Each Offeror is to provide any additional information that will enhance the Software Support Plan.

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SECTION J

ATTACHMENT XI

DEFINITIONS OF MAJOR CONVERSION PROJECT DELIVERABLES

Following are definitions of the major conversion project deliverables. These definitions are an integral part of the terms and conditions of this contract.

ACRONYM	DELIVERABLE NAME - DEFINITION
CTD	Conversion Task Description - The CTD is a component of the Conversion Task Package (CTP) which will contain the detailed specifications for the execution of a specific site conversion task. Attachment XII defines the site conversion tasks. Two CTDs will be provided for each task; one detailing the Government's responsibilities, the other detailing the Contractor's responsibilities.
CTP	Conversion Task Package - The CTP is a component of the Site Conversion Plan (SCP) which will consist of one Government and one Contractor CTD for each one of the computer system conversion tasks listed in Attachment XII.
GCP	Group Conversion Plan - The GCP will identify and schedule a similar group of department/agency sites to be converted, finalize the definition of the conversion approach(es) to be used to accomplish application software and data translation, revalidate hardware inventory at the computer system model level only, and provide conversion cost estimates including Government and Contractor costs.
MCP	Master Conversion Plan - The MCP will provide the guidelines, procedures, and schedule for the development and implementation of the following management processes, subordinate plans, and tools: Management Processes: o Contractor Management Process o Government Management Process o Group Conversion Plan (GCP) Review and Approval Process o Master Conversion Plan (MCP) Review and Amendment Process

ACRONYM	DELIVERABLE NAME - DEFINITION
MCP	(continued) o Project Reporting Process o Site Conversion Plan (SCP) Review and Approval Process Subordinate Plans: o Group Conversion Plan (GCP) o Quality Assurance (QA) Plan o Site Conversion Plan (SCP) o Software Configuration Management Plan (SCMP) o Training Plan (TP) Tools: o Software Configuration Management System (SCMS) o Work Package Monitoring and Tracking System (WPMTS)
QA PLAN	Quality Assurance - The QA plan will specify the standards and quality assurance procedures to be applied to the project deliverables. These deliverables include, but are not limited to: (1) documentation (plans, schedules, reports, guidelines and procedures) and (2) conversion products (converted software and data, software inventory reports, test data and procedures, application documentation, etc.).
SCMP	Software Configuration Management Plan - The SCMP will specify the software configuration management and change control guidelines, responsibilities, and procedures to be applied to application software systems during the conversion and parallel operation processes. The SCMP must address software configuration management needs at the GCP and SCP levels.
SCMS	Software Configuration Management System - The SCMS will be defined by the SCMP and will provide the means to identify and track application software during the site conversion process. For standard applications, it will provide the means to identify the sites executing the standard applications, and identify the release level of the standard applications' programs, data files, etc. The SCMS must be implemented at the SCP level, and may be implemented at the GCP level if required by the selected conversion approach(es).

ACRONYM	DELIVERABLE NAME - DEFINITION
SCP	Site Conversion Plan - The SCP will identify the current and target environments, specify the conversion approach(es) to be used for the site's computer system(s), provide life cycle cost estimates, provide a conversion risk assessment, and provide a detailed conversion schedule. It includes completed CTDs and CTP, and a firm fixed price cost proposal for conversion.
TP	Training Plan - The TP will specify the training approach(es), curriculum(s) and schedule(s) for department/agency management, professional, ADP specialist, administrative/clerical, and other (refer to Section C, Paragraph C.1.1 for definitions). The initial TP will be updated to include training at the GCP and SCP levels.
WPMTS	Work Package Monitoring and Tracking System - The WPMTS will provide the means to monitor and track conversion work packages through the conversion process. It will be integrated as necessary with the SCMS to accomplish change control to applications within work packages and during parallel operations. The WPMTS must be implemented at the SCP level, and may be implemented at the GCP level if required by the selected conversion approach(es).

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SECTION J

ATTACHMENT XII

DEFINITIONS OF SITE CONVERSION TASKS

Following are brief definitions of the site conversion tasks. Section CC provides further elaboration of the requirements associated with these tasks.

TASK DEFINITION

1. Site Conversion Plan Development - This activity consists of the conduct of the tasks 2, 3, and 4 listed below. In the context of this RFP and resulting contract, the SCP must be prepared, and approved prior to the conduct of the additional conversion tasks identified below as tasks 5-14.

2. Site Conversion Management - Manage the development of the SCP (CTP and CTDs included), manage and coordinate site conversion activities, implement and operate the SCMS and WPMTS, and report site conversion status to the GCP (department/agency coordinator) and MCP levels.

3. Software Inventory Preparation and Validation - Perform and validate the software inventory. The inventory will identify and assess the quality, complexity and working status of the programs, utilities, data files and data bases, operation control language, documentation, test data and procedures for each ADP application at the site to be converted. The inventory also will include word processing documents and glossaries.

4. Conversion Planning and Analysis - Determine the disposition (i.e, convert, rewrite, replace, discard, etc.) of every application, word processing document and glossary. Establish the priority of conversion for the applications, word processing documents and glossaries to be converted.

5. Work Package Identification and Preparation - For each computer system to be converted, determine the number of work packages required, and identify the required contents of the work package(s), assemble the work package components, and transmit the work packages to the conversion element.

6. Test Data Generation and Validation - Determine and develop the test data and procedures necessary to validate the correct operation of the converted work packages.

TASK DEFINITION

7. System and Application Software Conversion - Convert the system and application software. Any required source code comment redocumentation will occur during this task.

8. Data File and Data Base Conversion - Convert the data files, data bases, or word processing documents.

9. Operation Control Language (OCL) Conversion - Convert the OCL. The conversion of word processing glossaries is considered to be part of this task.

10. Redocumentation - Update the documentation to reflect any differences in operation, design or implementation of the converted application.

11. System and Acceptance Accepting - Test and verify correct operation of the converted applications and word processing glossaries. Test and verify that files, data bases, and word processing documents have been converted correctly.

12. Training - Conduct any required user training.

13. Parallel Operation - Provide the required logistical operational and technical support during the parallel operation period.

14. Optimization - Evaluate and report by system or application the specific changes to the converted software, file and OCL which result in increased performance, increased level of service to users, or improvement upon the functionality of the systems or applications.

September 12, 1986

SECTION J

ATTACHMENT XIII

COMPUTER SYSTEM PROFILES

September 12, 1986

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ATTACHMENT XIII

SECTION 1

OVERVIEW OF SYSTEM PROFILES

The computer system profiles provided in this attachment are for cost evaluation purposes only. However, they are the basis around which firm-fixed-price methodology for site conversion will be established and administered throughout the contract life.

There are two types of profiles presented:

- o Source environment profiles which define the data processing conversion requirements, and
- o Target environment profiles which define personnel conversion training requirements, parallel operation requirements in terms of personnel and weeks of operation, and word processing conversion requirements for documents and locally developed glossaries.

Each source environment profile typifies a category of systems where the workload and equipment types are similar. These profiles present an average number of programs and data and operation control language (OCL) files to be converted in contract years 1 through 5 with the exception of the profiles presented for the development systems which give actual estimates for specific applications and glossaries to be converted beginning in contract year 1.

The source environment system categories are:

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- Standard Development System - A VS system used for the development and maintenance of standard applications and glossaries that are run on standard production systems. Standard development systems are summarized by organization code in the chart below.

ORGANIZATION CODE	AGENCY	OFFICE CODE AND LOCATION
085001	DOS	M/COMP/FS, Wash, DC
209010	DOS	A/ISO/USS, Wash, DC
280210	DOS	CA/EX/SA, Wash, DC
B10000	USIA	M/ATS, Wash, DC
CE1C00	AID	IRM, Wash, DC
D11201	AID	SAN JOSE, Costa Rica

VS standard development systems are profiled in Figure J-XIII-1a through 1f. These systems will not be replaced by target systems. Instead, the standard applications and glossaries defined in Figure CC.6-3, together with their associated OCL, will be converted and run as a parallel operation on both the target and source development systems. These activities are mandatory conversion requirements and are part of the initial conversion effort described in Section CC. There is no conversion requirement on standard development systems for standard data files, local glossaries, locally developed applications and associated OCL and data files, or word processing documents.

- Standard Production System - A VS system related directly to the overall mission of the owning department/agency (e.g., a system that issues visas, pays employees, controls inventories and funds, etc.). Standard and locally developed applications are supported on the system. For evaluation purposes, all foreign cv4 and cv5 source systems fall into this category. VS standard production systems are profiled in Figure J-XIII-2a through 2c.

- Non-Standard Production System - A VS system that is essentially identical to a standard production system, however, standard applications are not supported. The site-specific applications run on these systems are generally developed and maintained by the staff assigned to the site. For evaluation purposes, all domestic VS source systems fall into this category as well as the cv1, cv2 and cv3 foreign VS source systems.

Foreign VS non-standard production systems are profiled in Figure J-XIII-3a through 3e. Domestic VS non-standard production systems are profiled in Figure J-XIII-4a through 4e.

- OIS & Alliance - WPS System - OIS/Alliance systems are used to support ADP applications and word processing. WPS systems are used to provide word processing support to the owning department/agency. For evaluation purposes, these systems are profiled as one system category using the nomenclature co2, co3 and co4.

OIS-Alliance-WPS systems are profiled in Figure J-XIII-5a through 5c. The data processing requirements presented in the profiles represent an average.

Personal computers are not included in the source system profiles since there are no conversion requirements for this category. Also, personal computers are not included in the target system profiles since conversion requirements are not envisioned under this contract for source systems scheduled for replacement by target PC's.

Each source system profile indicates how much code resides on each system type. The code is available for inspection in the Reading Room and is labeled in the Reading Room as indicated on each profile under the heading "Reading Room Representation". (Refer to Section J, Attachment XVIII for instructions regarding the Reading Room.)

With the exception of the applications and glossaries associated with the standard development systems, Offerors will find representative samples in the Reading Room of code to be converted for each system category. For standard development systems, Offerors will find the actual source code to be converted in the Reading Room.

To replicate increases in lines of code for years 2 through 5 for systems other than standard development systems, Offerors should utilize the representative code in the Reading Room and apply the percentage of increase in lines of code indicated in the profiles for years 2-3 and 4-5. The complexity of the code for all five years is expected to remain the same, the only difference being an increase in the amount of code; therefore, representative code has been generated for one year only. For standard development systems, conversion of code will begin in Contract Year 1; therefore, profiles are not necessary for Contract Years 2 through 5.

Following each source environment profile, with the exception of standard development systems, are the program and data file breakdowns for contract years 1, 2-3, and 4-5. The average number of files and lines of code is indicated for each programming language implemented on each current environment system. The average number of files and blocks for data files pertaining to standard and local applications is shown together with the following information:

- Organization of File
  - I = Indexed
  - S = Sequential
  - I/A = Sequential with Alternate Key(s)

- o Format of Records
  F = Fixed Length
  V = Variable Length

- o Compressed File
  Y = Yes
  N = No

For standard development systems, the number of COBOL, Assembler, and Basic files and lines of code are shown at the bottom of each standard development system profile. For standard development systems, there is no requirement for conversion of data files, therefore, data file breakdowns are not necessary. As previously stated, conversion of standard development systems will occur beginning in contract year 1, therefore profiles are presented for year 1 only.

All of the source code residing in the Reading Room has been scanned via a scanner program which identifies and counts occurrences of non-ANSI-standard statements (and statements which are not easily translated) within the code. Copies of the scanner reports, together with an explanation of the report, are available upon request in the Reading Room. The scanner reports indicate the complexities of the code, however, these reports are not contractually binding. Should any discrepancies exist between the scanner reports and the code residing in the Reading Room, the Reading Room codes take precedence.

Offerors should refer to Section J, Attachment IX for the de-installation schedule of source systems and the installation schedule of target systems, and to Section CC for the complete statement of work regarding conversions. Offerors should then link the schedule of source and target systems, the statement of work in Section CC, the data contained in the following profiles, and their evaluation of the code and documentation in the Reading Room in order to derive their approach to the conversion, their firm-fixed-prices for the conversion of the mandatory standard applications and glossaries on standard development systems and their firm-fixed-pricing methodology for the future conversion of all other system types. A summarization of the ADP and WP conversion requirements for each system category is presented in the following chart.

	VS STD DEV SYSTEMS (6 indicated systems)	VS STD PROD SYSTEMS (all foreign cv4 & cv5)	VS NON-STD PROD SYS (all domestic cv1-cv5, all foreign cv1-cv3	OIS-ALLIANCE WPS SYSTEMS (all foreign & domestic co2,co3,co4
CONVERT THE FOLLOWING:				
Loc Dev Apps	N	Y	Y	Y
Std Apps	Y	N	N	N
Local Data Files	N	Y	Y	Y
Std Data Files	N	Y	N	N
Local OCL Files	N	Y	Y	Y
Std OCL Files	Y	N	N	N
Local Glossaries*	N	Y	Y	Y
Std Glossaries	Y	N	N	N
WP Documents*	N	Y	Y	Y

* Target system dependent - Refer to Figure J-XIII-8.

Figure J-XIII-6 presents the conversion training requirements by target environment for different personnel categories. The number of end-users to be trained is dependent upon the installation year as Figure J-XIII-6 shows.

Figure J-XIII-7 presents the assumed personnel time for target environment parallel operations. The figure further shows the assumed duration of parallel operations; for example, for a C1 target environment, one-fourth (0.25) of a System Manager's time is chargeable to parallel operations for three (3) weeks.

Figure J-XIII-8 presents the Phase III word processing document conversion requirements by target environment. The number of documents, file blocks and glossaries are shown by contract year of conversion.

VS STANDARD DEVELOPMENT SYSTEM PROFILE

Development Site: A/ISO/USS
Source System: cvS

	STANDARD PROGRAMS		STANDARD GLOSSARIES		STANDARD OCL FILES		READING ROOM REPRESENTATION
ID	#	lines	#	lines	#	lines	
PE	98	90381			1	45	ISO.PE.1;ISO.PE.2
PP	42	32158			12	333	ISO.PP.1
ES	69	26311			18	1640	ISO.ES.1
RM	21	16928			1	88	ISO.RM.1
IA	23	28889			1	25	ISO.IA.1
YY	116	74024			1	10	ISO.YY.1;ISO.YY.2
VI	10	19860			0	0	ISO.VI.1
TC	51	29816			8	209	ISO.TC.1
HL	7	13731			1	19	ISO.HL.1
XX	68	19894			0	0	ISO.XX.1
GE	36	45116			0	0	ISO.GE.1
RE	252	183428			185	25572	ISO.RE.1;ISO.RE.2;ISO.RE.TOOLFRM; ISO.RE.FBCOPY;ISO.RE.RECOPY; ISO.RE.FBPROC;ISO.RE.REPROC
01			1	72			ISO.GLOSS.1
2			1	40			ISO.GLOSS.1
3			1	256			ISO.GLOSS.1
4			1	48			ISO.GLOSS.1
6			1	144			ISO.GLOSS.1
7			1	32			ISO.GLOSS.1
8			1	48			ISO.GLOSS.1
9			1	104			ISO.GLOSS.1
10			1	24			ISO.GLOSS.1
11			1	40			ISO.GLOSS.1
12			1	32			ISO.GLOSS.1
13			1	80			ISO.GLOSS.1

PROGRAM FILES BREAKDOWN

LANGUAGE	#	lines
Basic	3	355
Assembler	10	2109
COBOL	780	578102

Figure J-XIII-1a

VS STANDARD DEVELOPMENT SYSTEM PROFILE (Cont'd)

Development Site: A/ISO/USS
Source System: cv5

	STANDARD PROGRAMS		STANDARD GLOSSARIES		STANDARD OCL FILES		READING ROOM REPRESENTATION
ID	#	lines	#	lines	#	lines	
14			1	152			ISO.Gloss.1
15			1	24			ISO.Gloss.1
16			1	64			ISO.GLOSS.1
17			1	40			ISO.GLOSS.1
18			1	64			ISO.GLOSS.1
20			1	32			ISO.GLOSS.1
21			1	232			ISO.GLOSS.1
22			1	240			ISO.GLOSS.1
23			1	272			ISO.GLOSS.1
24			1	120			ISO.GLOSS.2
25			1	168			ISO.GLOSS.2
26			1	88			ISO.GLOSS.2
28			1	16			ISO.GLOSS.2
29			1	32			ISO.GLOSS.2
30			1	104			ISO.GLOSS.2
31			1	184			ISO.GLOSS.2
32			1	184			ISO.GLOSS.2
33			1	284			ISO.GLOSS.2
34			1	24			ISO.GLOSS.2

Figure J-XIII-1a (Cont'd)

VS STANDARD DEVELOPMENT SYSTEM PROFILE

Development Site: CA/EX/SA
Source System: cv5

	STANDARD PROGRAMS		STANDARD GLOSSARIES		STANDARD OCL FILES		READING ROOM REPRESENTATION
ID	#	lines	#	lines	#	lines	
IV	153	79233			58	3158	CA.IV.1;CA.IV.COPYLIB;CA.IV.PROC
CP	82	40384			21	1365	CA.CP.1;CA.CP.COPYLIB;CA.CP.PROC
CS	106	97133			21	916	CA.CS.1;CA.CS.COPYLIB;CA.CS.PROC
CX	141	34587			16	377	CA.CX.1;CA.CX.COPYLIB;CA.CX.PROC
CW	12	14987			2	54	CA.CW.1;CA.CW.COPYLIB;CA.CW.PROC
LI	136	115757			19	1096	CA.LI.1;CA.LI.COPYLIB;CA.LI.PROC
CM	19	9594			1	61	CA.CM.1;CA.CM.COPYLIB;CA.CM.PROC
			0	0			None

PROGRAM FILES BREAKDOWN		
LANGUAGE	#	lines
Basic	0	0
Assembler	0	0
COBOL	650	393604

Figure J-XIII-1b

VS STANDARD DEVELOPMENT SYSTEM PROFILE

Development Site: M/COMP/FS
Source System: cvS

	STANDARD PROGRAMS		STANDARD GLOSSARIES		STANDARD OCL FILES		READING ROOM REPRESENTATION
ID	#	lines	#	lines	#	lines	
FS	352	464975					M/COMP.FS.FSST1COB.1; M/COMP.FS.FSST1COB.2; M/COMP.FS.FSST1COB.3; M/COMP.FS.FSST1COB.4; M/COMP.FS.FSST1COB.5; M/COMP.FS.FSST1COB.6; M/COMP.FS.FSST1COB.7; M/COMP.FS.FSST1COB.8;
FS	58	124035					M/COMP.FS.FSST2COB.1; M/COMP.FS.FSST2COB.2; M/COMP.FS.FSST2COB.3; M/COMP.FS.FSST2COB.4;
FS	13	36426					M/COMP.FS.FSST3COB.1;
FS	197	409877					M/COMP.FS.FMCOB.1; M/COMP.FS.FMCOB.2 M/COMP.FS.FMCOB.3; M/COMP.FS.FMCOB.4; M/COMP.FS.FMCOB.5; M/COMP.FS.FMCOB.6; M/COMP.FS.FMCOB.7
FS	77	84920					M/COMP.FS.BMCOB.1; M/COMP.FS.BUCOB.2
FS	82	116053					M/COMP.FS.IACOB.1; M/COMP.FS.IACOB.2
FS	472	23200					M/COMP.FS.ACCOPY.1
FS	584	26295					M/COMP.FS.FMCOPY.1
FS	86	4159					M/COMP.FS.BUCOPY.1
FS	467	23645					M/COMP.FS.IACOPY.1
FS					107	14346	M/COMP.FS.NEWPROC.1
FS					284	36776	M/COMP.FS.FMPROC.1
FS					42	6843	M/COMP.FS.BUPROC.1
FS					72	14300	M/COMP.FS.IAPROC.1

PROGRAM FILES BREAKDOWN		
LANGUAGE	#	lines
Basic		
Assembler		
COBOL	2382	1,313,585

Figure J-XIII-1c

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VS STANDARD DEVELOPMENT SYSTEM PROFILE

Development Site: AID IRM
Source System: cv5

	STANDARD PROGRAMS		STANDARD GLOSSARIES		STANDARD OCL FILES		READING ROOM REPRESENTATION
ID	#	lines	#	lines	#	lines	
IC	5	3470			37	2114	AID/IRM.IC.1
AI	22	12617			9	426	AID/IRM.AI.1
RS	19	13139			0	0	AID/IRM.RS.1
51			1	682			AID.GLOSS.1
52			1	988			AID.GLOSS.1
53			1	880			AID.GLOSS.1
54			1	920			AID.GLOSS.1
55			1	384			AID.GLOSS.1
56			1	3080			AID.GLOSS.1
57			1	1476			AID.GLOSS.1
58			1	817			AID.GLOSS.1
59			1	918			AID.GLOSS.1
60			1	2150			AID.GLOSS.1
61			1	18			AID.GLOSS.1
62			1	1196			AID.GLOSS.1

PROGRAM FILES BREAKDOWN		
LANGUAGE	#	lines
Basic Assembler	3	698
COBOL	43	28528

Figure J-XIII-1d

VS STANDARD DEVELOPMENT SYSTEM PROFILE

Development Site: AID - CR (SAN JOSE COSTA RICA)
Source System: cv4

ID	STANDARD PROGRAMS		STANDARD GLOSSARIES		STANDARD OCL FILES		READING ROOM REPRESENTATION
	#	lines	#	lines	#	lines	
MX	138	227839			130	4701	AID/CR.MX.1;AID/CR.MX.2; AID/CR.MX.3;AID/CR.MX.4; AID/CR.MX.5;AID/CR.MX.6; AID/CR.MX.7;AID/CR.MX.8; AID/CR.MX.PROC
ME	23	10995			25	667	AID/CR.ME.1
AM	12	9810			11	447	AID/CR.AM.1
63			1	2091			AID/GLOSS.1
64			1	759			AID/GLOSS.1
65			1	588			AID/GLOSS.1

PROGRAM FILES BREAKDOWN		
LANGUAGE	#	lines
Basic		
Assembler		
COBOL	173	248644

Figure J-XIII-1e

VS STANDARD DEVELOPMENT SYSTEM PROFILE

Development Site: USIA M/ATS
Source System: cv5

	STANDARD PROGRAMS		STANDARD GLOSSARIES		STANDARD OCL FILES		READING ROOM REPRESENTATION
ID	#	lines	#	lines	#	lines	
DR	41	57073			0	0	USIA.DR.1
			0	0			None

PROGRAM FILES BREAKDOWN		
LANGUAGE	#	lines
Basic	9	1129
Assembler	0	0
COBOL	32	55944

Figure J-XIII-1f

DATA PROCESSING SOURCE SYSTEM PROFILE
System Type: VS Standard Production Systems (Foreign)

	PROGRAMS				READING ROOM REPRESENTATION	DATA FILES				OCL FILES			
	LOCAL		STANDARD			LOCAL		STANDARD		LOCAL		STANDARD	
sys	#	lines	#	lines		#	blcks	#	blcks	#	lines	#	lines
Contract Year: 1													
cv1	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
cv2	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
cv3	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
cv4	100	50,000	N/A		COBOL.1.Yellow	39	10,429	324	87,955	41	816	N/A	
cv5	100	50,000	N/A		COBOL.1.Yellow	59	15,801	491	133,265	41	816	N/A	
Contract Year: 2 - 3													
cv1	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
cv2	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
cv3	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
cv4	120	60,000	N/A		COBOL.1.Yellow + 20%	46	19,910	389	167,912	32	846	N/A	
cv5	120	60,000	N/A		COBOL.1.Yellow + 20%	70	30,645	588	258,454	49	979	N/A	
Contract Year: 4 - 5													
cv1	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
cv2	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
cv3	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
cv4	130	65,000	N/A		COBOL.1.Yellow + 30%	50	25,597	422	251,888	35	700	N/A	
cv5	130	65,000	N/A		COBOL.1.Yellow + 30%	76	49,796	638	419,987	53	1,061	N/A	

Figure J-XIII-2a

FILE BREAKDOWN

System Type: VS Standard Production System (Foreign)
System: cv4

Contract Year: 1

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
COBOL	100	50,000	N/A	N/A	N/A	5	2,099	I	F	N	44	17,701	I	F	N
						7	91	I	V	N	57	767	I	V	N
						7	5,807	I	V	Y	64	48,973	I	V	Y
						4	210	S	F	N	34	1,770	S	F	N
						3	28	S	V	N	20	233	S	V	N
						7	385	S	V	Y	59	3,245	S	V	Y
						4	1,805	I/A	F	N	36	15,222	I/A	F	N
						1	3	I/A	V	N	5	30	I/A	V	N
						1	1	I/A	V	Y	5	13	I/A	V	Y

Contract Year: 2 - 3

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
COBOL	120	60,000	N/A	N/A	N/A	6	4,007	I	F	N	53	33,793	I	F	N
						8	174	I	V	N	68	1,464	I	V	N
						8	11,086	I	V	Y	77	93,494	I	V	Y
						5	401	S	F	N	41	3,379	S	F	N
						4	53	S	V	N	24	445	S	V	N
						8	735	S	V	Y	71	6,195	S	V	Y
						5	3,446	I/A	F	N	43	29,060	I/A	F	N
						1	6	I/A	V	N	6	57	I/A	V	N
						1	2	I/A	V	Y	6	25	I/A	V	Y

Contract Year: 4 - 5

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
COBOL	130	65,000	N/A	N/A	N/A	7	5,152	I	F	N	57	43,448	I	F	N
						9	223	I	V	N	74	1,883	I	V	N
						9	14,254	I	V	Y	83	120,206	I	V	Y
						5	515	S	F	N	44	4,345	S	F	N
						4	69	S	V	N	26	572	S	V	N
						9	945	S	V	Y	77	7,965	S	V	Y
						5	4,430	I/A	F	N	47	37,363	I/A	F	N
						1	7	I/A	V	N	7	74	I/A	V	N
						1	2	I/A	V	Y	7	32	I/A	V	Y

Figure J-XIII-2b

FILE BREAKDOWN

System Type: VS Standard Production System (Foreign)
System: cv5

Contract Year: 1

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
COBOL	100	50,000	N/A	N/A	N/A	8	3,180	I	F	N	67	26,820	I	F	N
						10	138	I	V	N	86	1,162	I	V	N
						11	8,798	I	V	Y	97	74,202	I	V	Y
						6	318	S	F	N	52	2,682	S	F	N
						4	42	S	V	N	30	353	S	V	N
						11	583	S	V	Y	89	4,917	S	V	Y
						6	2,735	I/A	F	N	55	23,065	I/A	F	N
						2	5	I/A	V	N	8	45	I/A	V	N
						1	2	I/A	V	Y	7	19	I/A	V	Y

Contract Year: 2 - 3

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
COBOL	120	60,000	N/A	N/A	N/A	10	6,167	I	F	N	80	52,015	I	F	N
						12	268	I	V	N	103	2,254	I	V	N
						13	17,063	I	V	Y	116	143,907	I	V	Y
						7	617	S	F	N	62	5,201	S	F	N
						5	81	S	V	N	36	685	S	V	N
						13	1,131	S	V	Y	107	9,536	S	V	Y
						7	5,304	I/A	F	N	66	44,732	I/A	F	N
						2	10	I/A	V	N	10	87	I/A	V	N
						1	4	I/A	V	Y	8	37	I/A	V	Y

Contract Year: 4 - 5

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
COBOL	130	65,000	N/A	N/A	N/A	10	10,022	I	F	N	87	84,524	I	F	N
						13	435	I	V	N	112	3,662	I	V	N
						14	27,727	I	V	Y	126	233,849	I	V	Y
						8	1,002	S	F	N	67	8,452	S	F	N
						5	132	S	V	N	39	1,112	S	V	N
						14	1,837	S	V	Y	116	15,496	S	V	Y
						5	8,619	I/A	F	N	72	72,690	I/A	F	N
						3	16	I/A	V	N	10	142	I/A	V	N
						1	6	I/A	V	Y	9	60	I/A	V	Y

Figure J-XIII-2c

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DATA PROCESSING SOURCE SYSTEM PROFILE

System Type: VS Non-Standard Production Systems (Foreign)

	PROGRAMS				READING ROOM REPRESENTATION	DATA FILES				OCL FILES			
	LOCAL		STANDARD			LOCAL		STANDARD		LOCAL		STANDARD	
sys	#	lines	#	lines		#	blcks	#	blcks	#	lines	#	lines
Contract Year: 1													
cv1	0		N/A			0		N/A		0		N/A	
cv2	40	22,838	N/A		BASIC.1.Blue ASSEMBLER.1.Blue COBOL. 1. Blue	107	35,063	N/A		16	319	N/A	
cv3	80	45,675	N/A		BASIC.1.Red ASSEMBLER.1.Red COBOL.1.Red	155	51,000	N/A		32	637	N/A	
cv4	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
cv5	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
Contract Year: 2 - 3													
cv1	0		N/A			0		N/A		0		N/A	
cv2	48	27,406	N/A		BASIC.1.Blue + 20% ASSEMBLER.1.Blue + 20% COBOL.1.Blue + 20%	129	56,101	N/A		19	383	N/A	
cv3	96	54,810	N/A		BASIC.1.Red + 20% ASSEMBLER.1.Red + 20% COBOL.1.Red + 20%	185	127,500	N/A		38	765	N/A	
cv4	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
cv5	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
Contract Year: 4 - 5													
cv1	0		N/A			0		N/A		0		N/A	
cv2	53	29,690	N/A		BASIC.1.Blue + 30% ASSEMBLER.1.Blue + 30% COBOL.1.Blue + 30%	140	84,151	N/A		21	415		
cv3	104	59,378	N/A		BASIC.1.Red + 30% ASSEMBLER.1.Red + 30% COBOL.1.Red + 30%	202	165,750	N/A		42	828	N/A	
cv4	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
cv5	N/A		N/A		N/A	N/A		N/A		N/A		N/A	

Figure J-XIII-3a

FILE BREAKDOWN

System Type: VS Non-Standard Production System (Foreign)
System: cv2

Contract Year: 1

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	3	1,890	N/A	N/A	N/A	39	15,180	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	2	473	N/A	N/A	N/A	14	5,610	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	35	20,475	N/A	N/A	N/A	15	4,686	I	V	Y	N/A	N/A	N/A	N/A	N/A
						4	1,073	S	F	N	N/A	N/A	N/A	N/A	N/A
						7	1,914	S	V	N	N/A	N/A	N/A	N/A	N/A
						10	1,320	S	V	Y	N/A	N/A	N/A	N/A	N/A
						9	660	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						5	3,432	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						4	1,188	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Contract Year: 2 - 3

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	4	2,268	N/A	N/A	N/A	47	24,288	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	2	568				17	8,976	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	42	24,570				18	7,498	I	V	Y	N/A	N/A	N/A	N/A	N/A
						5	1,717	S	F	N	N/A	N/A	N/A	N/A	N/A
						8	3,062	S	V	N	N/A	N/A	N/A	N/A	N/A
						12	2,112	S	V	Y	N/A	N/A	N/A	N/A	N/A
						11	1,056	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						6	5,491	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						5	1,901	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Contract Year: 4 - 5

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	4	2,457	N/A	N/A	N/A	51	36,432	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	3	615	N/A	N/A	N/A	18	13,464	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	46	26,618	N/A	N/A	N/A	20	11,246	I	V	Y	N/A	N/A	N/A	N/A	N/A
						5	2,575	S	F	N	N/A	N/A	N/A	N/A	N/A
						9	4,594	S	V	N	N/A	N/A	N/A	N/A	N/A
						13	3,168	S	V	Y	N/A	N/A	N/A	N/A	N/A
						12	1,584	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						7	8,237	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						5	2,851	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Figure J-XIII-3b

FILE BREAKDOWN

System Type: VS Non-Standard Production System (Foreign)
System: cv3

Contract Year: 1

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	6	3,780	N/A	N/A	N/A	57	22,080	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	3	945	N/A	N/A	N/A	20	8,160	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	71	40,950	N/A	N/A	N/A	22	6,816	I	V	Y	N/A	N/A	N/A	N/A	N/A
						6	1,560	S	F	N	N/A	N/A	N/A	N/A	N/A
						10	2,784	S	V	N	N/A	N/A	N/A	N/A	N/A
						14	1,920	S	V	Y	N/A	N/A	N/A	N/A	N/A
						13	960	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						7	4,992	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						6	1,728	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Contract Year: 2 - 3

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	7	4,536	N/A	N/A	N/A	68	55,200	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	4	1,134	N/A	N/A	N/A	24	20,400	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	85	49,140	N/A	N/A	N/A	26	17,040	I	V	Y	N/A	N/A	N/A	N/A	N/A
						7	3,900	S	F	N	N/A	N/A	N/A	N/A	N/A
						12	6,960	S	V	N	N/A	N/A	N/A	N/A	N/A
						17	4,800	S	V	Y	N/A	N/A	N/A	N/A	N/A
						16	2,400	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						8	12,480	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						7	4,320	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Contract Year: 4 - 5

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	8	4,914	N/A	N/A	N/A	74	71,760	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	4	1,229	N/A	N/A	N/A	26	26,520	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	92	53,235	N/A	N/A	N/A	29	22,152	I	V	Y	N/A	N/A	N/A	N/A	N/A
						8	5,070	S	F	N	N/A	N/A	N/A	N/A	N/A
						13	9,048	S	V	N	N/A	N/A	N/A	N/A	N/A
						18	6,240	S	V	Y	N/A	N/A	N/A	N/A	N/A
						17	3,120	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						9	16,224	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						8	5,616	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Figure J-XIII-3c

DATA PROCESSING SOURCE SYSTEM PROFILE System Type: VS Non-Standard Production Systems (Domestic)													
Contract Year: 1													
	PROGRAMS				READING ROOM REPRESENTATION	DATA FILES				OCL FILES			
	LOCAL		STANDARD			LOCAL		STANDARD		LOCAL		STANDARD	
sys	#	lines	#	lines		#	blcks	#	blcks	#	lines	#	lines
cv1	0		N/A		N/A	0		N/A		0		N/A	
cv2	40	22,800	N/A		BASIC.1.Blue ASSEMBLER.1.Blue COBOL.1.Blue	106	35,063	N/A		16	319	N/A	
cv3	80	45,600	N/A		BASIC.1.Red ASSEMBLER.1.Red COBOL.1.Red + 20%	155	51,000	N/A		32	637	N/A	
cv4	127	72,500	N/A		BASIC.1.Green COBOL.1.Green ASSEMBLER.1.Green	213	70,125	N/A		52	1,035	N/A	
cv5	127	72,500	N/A		BASIC.1.Green COBOL.1.Green ASSEMBLER.1.Green	322	106,250	N/A		52	1,035	N/A	
Contract Year: 2 - 3													
cv1	0		N/A		N/A	0		N/A		0		N/A	
cv2	48	27,360	N/A		BASIC.1.Blue + 20% ASSEMBLER.1.Blue + 20% COBOL.1.Blue + 20%	127	56,101	N/A		19	383	N/A	
cv3	96	54,720	N/A		BASIC.1.Red + 20% ASSEMBLER.1.Red + 20% COBOL.1.Red + 20%	186	127,500	N/A		38	765	N/A	
cv4	152	87,000	N/A		BASIC.1.Green + 20% ASSEMBLER.1.Green + 20% COBOL. 1. Green + 20%	258	133,875	N/A		62	1,242	N/A	
cv5	152	87,000	N/A		BASIC. 1. Green + 20% ASSEMBLER.1. Green +20% COBOL. 1. Green + 20%	386	206,061	N/A		62	1,242	N/A	
Contract Year: 4 - 5													
cv1	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
cv2	53	26,640	N/A		BASIC.1.Blue + 30% ASSEMBLER.1.Blue + 30% COBOL.1.Blue + 30%	138	84,151	N/A		21	415	N/A	
cv3	104	59,280	N/A		BASIC.1.Red + 30% ASSEMBLER.1.Red + 30% COBOL.1.Red + 30%	202	166,254	N/A		42	828	N/A	
cv4	165	94,250	N/A		BASIC.1.Green + 30% ASSEMBLER.1.Green + 30% COBOL.1.Green + 30%	277	172,125	N/A		68	1,346	N/A	
cv5	165	94,250	N/A		BASIC.1.Green + 30% ASSEMBLER.1.Green + 30% COBOL.1.Green + 30%	419	334,849	N/A		68	1,346	N/A	

Figure J-XIII-4a

FILE BREAKDOWN

System Type: VS Non-Standard Production System (Domestic)

System: cv2

Contract Year: 1

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	3	1,890	N/A	N/A	N/A	39	15,180	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	2	473	N/A	N/A	N/A	14	5,610	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	35	20,475	N/A	N/A	N/A	15	4,686	I	V	Y	N/A	N/A	N/A	N/A	N/A
						4	1,073	S	F	N	N/A	N/A	N/A	N/A	N/A
						7	1,914	S	V	N	N/A	N/A	N/A	N/A	N/A
						10	1,320	S	V	Y	N/A	N/A	N/A	N/A	N/A
						9	660	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						5	3,432	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						4	1,188	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Contract Year: 2 - 3

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	4	2.268	N/A	N/A	N/A	47	24,288	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	2	568	N/A	N/A	N/A	17	8,976	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	42	24,570	N/A	N/A	N/A	18	7,498	I	V	Y	N/A	N/A	N/A	N/A	N/A
						5	1,717	S	F	N	N/A	N/A	N/A	N/A	N/A
						8	3,062	S	V	N	N/A	N/A	N/A	N/A	N/A
						12	2,112	S	V	Y	N/A	N/A	N/A	N/A	N/A
						11	1,056	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						6	5,491	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						5	1,901	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Contract Year: 4 - 5

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	4	2,457	N/A	N/A	N/A	51	36,432	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	3	615	N/A	N/A	N/A	18	13,464	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	46	26,618	N/A	N/A	N/A	20	11,246	I	V	Y	N/A	N/A	N/A	N/A	N/A
						5	2,575	S	F	N	N/A	N/A	N/A	N/A	N/A
						9	4,594	S	V	N	N/A	N/A	N/A	N/A	N/A
						13	3,168	S	V	Y	N/A	N/A	N/A	N/A	N/A
						12	1,584	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						7	8,237	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						5	2,851	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Figure J-XIII-4b

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FILE BREAKDOWN

System Type: VS Non-Standard Production System (Domestic)
System: cv3

Contract Year: 1

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	6	3,780	N/A	N/A	N/A	57	22,080	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	3	945	N/A	N/A	N/A	20	8,160	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	71	40,950	N/A	N/A	N/A	22	6,816	I	V	Y	N/A	N/A	N/A	N/A	N/A
						6	1,560	S	F	N	N/A	N/A	N/A	N/A	N/A
						10	2,784	S	V	N	N/A	N/A	N/A	N/A	N/A
						14	1,920	S	V	Y	N/A	N/A	N/A	N/A	N/A
						13	960	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						7	4,992	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						6	1,728	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Contract Year: 2 - 3

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	7	4,536	N/A	N/A	N/A	68	55,200	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	4	1,134	N/A	N/A	N/A	24	20,400	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	85	49,140	N/A	N/A	N/A	26	17,040	I	V	Y	N/A	N/A	N/A	N/A	N/A
						7	3,900	S	F	N	N/A	N/A	N/A	N/A	N/A
						12	6,960	S	V	N	N/A	N/A	N/A	N/A	N/A
						17	4,800	S	V	Y	N/A	N/A	N/A	N/A	N/A
						16	2,400	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						8	12,980	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						7	4,320	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Contract Year: 4 - 5

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	8	4,914	N/A	N/A	N/A	74	71,760	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	4	1,229	N/A	N/A	N/A	26	26,520	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	92	53,235	N/A	N/A	N/A	29	22,152	I	V	Y	N/A	N/A	N/A	N/A	N/A
						8	5,070	S	F	N	N/A	N/A	N/A	N/A	N/A
						13	9,048	S	V	N	N/A	N/A	N/A	N/A	N/A
						18	6,240	S	V	Y	N/A	N/A	N/A	N/A	N/A
						17	3,120	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						9	16,224	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						8	5,616	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Figure J-XIII-4c

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FILE BREAKDOWN

System Type: VS Standard Production System (Domestic)

System: cv4

Contract Year: 1

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	10	6,000	N/A	N/A	N/A	79	30,360	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	5	1,500	N/A	N/A	N/A	28	11,220	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	112	65,000	N/A	N/A	N/A	30	9,372	I	V	Y	N/A	N/A	N/A	N/A	N/A
						8	2,145	S	F	N	N/A	N/A	N/A	N/A	N/A
						13	3,828	S	V	N	N/A	N/A	N/A	N/A	N/A
						19	2,640	S	V	Y	N/A	N/A	N/A	N/A	N/A
						18	1,320	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						9	6,864	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						9	2,376	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Contract Year: 2 - 3

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	12	7,200	N/A	N/A	N/A	95	57,960	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	6	1,800	N/A	N/A	N/A	34	21,420	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	134	78,000	N/A	N/A	N/A	36	17,892	I	V	Y	N/A	N/A	N/A	N/A	N/A
						10	4,095	S	F	N	N/A	N/A	N/A	N/A	N/A
						16	7,308	S	V	N	N/A	N/A	N/A	N/A	N/A
						23	5,040	S	V	Y	N/A	N/A	N/A	N/A	N/A
						22	2,520	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						11	13,104	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						11	4,536	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Contract Year: 4 - 5

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	13	7,800	N/A	N/A	N/A	103	74,520	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	6	1,950	N/A	N/A	N/A	36	27,540	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	146	84,500	N/A	N/A	N/A	39	23,004	I	V	Y	N/A	N/A	N/A	N/A	N/A
						10	5,265	S	F	N	N/A	N/A	N/A	N/A	N/A
						17	9,396	S	V	N	N/A	N/A	N/A	N/A	N/A
						25	6,480	S	V	Y	N/A	N/A	N/A	N/A	N/A
						23	3,240	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						12	16,848	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						12	5,832	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Figure J-XIII-4d

FILE BREAKDOWN

System Type: VS Standard Production System (Domestic)

System: cv5

Contract Year: 1

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	10	6,000	N/A	N/A	N/A	119	46,000	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	5	1,500	N/A	N/A	N/A	42	17,000	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	112	65,000	N/A	N/A	N/A	45	14,200	I	V	Y	N/A	N/A	N/A	N/A	N/A
						12	3,250	S	F	N	N/A	N/A	N/A	N/A	N/A
						20	5,800	S	V	N	N/A	N/A	N/A	N/A	N/A
						29	4,000	S	V	Y	N/A	N/A	N/A	N/A	N/A
						28	2,000	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						14	10,400	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						13	3,600	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Contract Year: 2 - 3

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	12	7,200	N/A	N/A	N/A	143	89,212	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	6	1,800	N/A	N/A	N/A	50	32,970	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	134	78,000	N/A	N/A	N/A	54	27,539	I	V	Y	N/A	N/A	N/A	N/A	N/A
						14	6,303	S	F	N	N/A	N/A	N/A	N/A	N/A
						24	11,248	S	V	N	N/A	N/A	N/A	N/A	N/A
						35	7,758	S	V	Y	N/A	N/A	N/A	N/A	N/A
						34	3,879	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						17	20,170	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						15	6,982	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Contract Year: 4 - 5

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blccks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	13	7,800	N/A	N/A	N/A	154	144,970	I	F	N	N/A	N/A	N/A	N/A	N/A
Assembler	6	1,950	N/A	N/A	N/A	55	53,576	I	V	N	N/A	N/A	N/A	N/A	N/A
COBOL	146	84,500	N/A	N/A	N/A	59	44,752	I	V	Y	N/A	N/A	N/A	N/A	N/A
						16	10,242	S	F	N	N/A	N/A	N/A	N/A	N/A
						26	18 279	S	V	N	N/A	N/A	N/A	N/A	N/A
						38	12,606	S	V	Y	N/A	N/A	N/A	N/A	N/A
						36	6,303	I/A	F	N	N/A	N/A	N/A	N/A	N/A
						18	32,776	I/A	V	N	N/A	N/A	N/A	N/A	N/A
						17	11,345	I/A	V	Y	N/A	N/A	N/A	N/A	N/A

Figure J-XIII-4e

DATA PROCESSING SOURCE SYSTEM PROFILE

System Type: DIS-Alliance-WPS System (Foreign and Domestic)

	PROGRAMS					DATA FILES				OCL FILES			
	LOCAL		STANDARD		READING ROOM REPRESENTATION	LOCAL		STANDARD		LOCAL		STANDARD	
sys	#	lines	#	lines		#	blcks	#	blcks	#	lines	#	lines
Contract Year: 1													
co2	0		N/A		N/A	0		N/A		0		N/A	
co3	17	5,236	N/A		BASIC.2.Red	10	10,330	N/A		5	110	N/A	
co4	17	5,236	N/A		BASIC.2.Red	20	20,660	N/A		5	110	N/A	
Contract Year: 2 - 3													
co2	0		N/A		N/A	0		N/A		0		N/A	
co3	20	6,283	N/A		BASIC.2.Red + 20%	11	25,825	N/A		6	132	N/A	
co4	20	6,283	N/A		BASIC.2.Red + 20%	24	39,442	N/A		6	132	N/A	
Contract Year: 4 - 5													
co2	N/A		N/A		N/A	0		N/A		0		N/A	
co3	22	6,807	N/A		BASIC.2.Red + 30%	13	33,573	N/A		7	143	N/A	
co4	22	6,807	N/A		BASIC.2.Red + 30%	26	50,711	N/A		7	143	N/A	

Figure J-XIII-5a

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FILE BREAKDOWN

System Type: OIS-Alliance-WPS System (Foreign and Domestic)
System: co3

Contract Year: 1

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	17	5,236	N/A	N/A	N/A	6	6,820	I	F	N	N/A	N/A	N/A	N/A	N/A
						1	2,500	I	V	N	N/A	N/A	N/A	N/A	N/A
						1	210	S	F	N	N/A	N/A	N/A	N/A	N/A
						2	800	S	V	N	N/A	N/A	N/A	N/A	N/A

Contract Year: 2 - 3

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	20	6,283	N/A	N/A	N/A	7	17,050	I	F	N	N/A	N/A	N/A	N/A	N/A
						1	6,250	I	V	N	N/A	N/A	N/A	N/A	N/A
						1	525	S	F	N	N/A	N/A	N/A	N/A	N/A
						2	2,000	S	V	N	N/A	N/A	N/A	N/A	N/A

Contract Year: 4 - 5

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	22	6,807	N/A	N/A	N/A	8	22,165	I	F	N	N/A	N/A	N/A	N/A	N/A
						1	8,125	I	V	N	N/A	N/A	N/A	N/A	N/A
						1	683	S	F	N	N/A	N/A	N/A	N/A	N/A
						3	2,600	S	V	N	N/A	N/A	N/A	N/A	N/A

Figure J-XIII-5b

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FILE BREAKDOWN

System Type: OIS-Alliance-WPS System (Foreign and Domestic)
System: co4

Contract Year: 1

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	17	5,236	N/A	N/A	N/A	12	13,640	I	F	N	N/A	N/A	N/A	N/A	N/A
						2	5,000	I	V	N	N/A	N/A	N/A	N/A	N/A
						2	420	S	F	N	N/A	N/A	N/A	N/A	N/A
						4	1600	S	V	N	N/A	N/A	N/A	N/A	N/A

Contract Year: 2 - 3

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	20	6,283	N/A	N/A	N/A	15	26,040	I	F	N	N/A	N/A	N/A	N/A	N/A
						2	9,545	I	V	N	N/A	N/A	N/A	N/A	N/A
						2	802	S	F	N	N/A	N/A	N/A	N/A	N/A
						5	3,055	S	V	N	N/A	N/A	N/A	N/A	N/A

Contract Year: 4 - 5

PROGRAM FILES BREAKDOWN						DATA FILES BREAKDOWN									
LOCAL			STANDARD			LOCAL					STANDARD				
language	#	lines	language	#	lines	#	blocks	org	fmt	cmp	#	blocks	org	fmt	cmp
Basic	22	6,807	N/A	N/A	N/A	16	33,480	I	F	N	N/A	N/A	N/A	N/A	N/A
						2	12,273	I	V	N	N/A	N/A	N/A	N/A	N/A
						3	1,031	S	F	N	N/A	N/A	N/A	N/A	N/A
						5	3,927	S	V	N	N/A	N/A	N/A	N/A	N/A

Figure J-XIII-5c

TARGET ENVIRONMENT CONVERSION TRAINING REQUIREMENTS

TARGET ENVIRONMENT:	C1	C2	C3	C4	C5	C6
Personnel Category						
System Manager	1	1	1	1	1	1
D.B. Administrator	-	-	1	1	1	1
D.B. Technical	-	-	2	2	2	2
System Prog/Analyst	-	-	2	2	2	2
Appl Prog/ Analyst	-	-	2	2	4	6
Computer Operator	1	1	1	1	1	1
End-Users Year 1	4	4	16	24	45	96
Years 2 - 3	5	7	20	42	64	150
Years 4 - 5	7	14	26	54	104	204

Figure J-XIII-6

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TARGET ENVIRONMENT PARALLEL OPERATION REQUIREMENTS

TARGET ENVIRONMENT:	C1	C2	C3	C4	C5	C6
Total Weeks:	3	3	4	5	5	5
Personnel Category						
System Manager	0.25	0.5	0.5	1	1	1
D.B. Adminstrator	--	--	0.5	1	1	1
D.B. Technical	--	--	0.5	1	1	1
Systems Prog/Analyst	--	--	0.5	1	1	1
Appl Prog/Analyst	--	--	0.5	1	2	2
Computer Operator	0.25	0.5	0.5	1	1	1

Figure J-XIII-7

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TARGET ENVIRONMENT WORD PROCESSING CONVERSION REQUIREMENTS

TARGET ENVIRONMENT:	C1	C2	C3	C4	C5	C6
CONTRACT YEAR 1						
Number of Documents:	161	129	182	473	710	1107
Number of Blocks:	1406	1125	1590	4125	6187	9652
Glossaries*	50	50	50	50	50	50
CONTRACT YEARS 2 - 3						
Number of Documents:	137	219	469	985	1376	1452
Number of Blocks:	1190	1905	4087	8583	11999	12655
Glossaries*	57	57	57	57	57	57
CONTRACT YEARS 4 - 5						
Number of Documents:	191	328	610	1266	2238	1858
Number of Blocks:	1667	2857	5313	11035	19498	16198
Glossaries*	65	65	65	65	65	65

* Glossaries average 53 lines of code each.

Figure J-XIII-8

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SECTION J

ATTACHMENT XIV

MASTER CONVERSION PLAN FORMAT AND CONTENT SPECIFICATION

This attachment provides the minimum standard format and content specification for the draft Master Conversion Plan (MCP) which is to be included in the Offeror's proposal.

MCP SECTIONS

1. PURPOSE

Refer to Section CC, Paragraph CC.4.1.1 and Subsections CC.4.1 and CC.6.2.

2. IDENTIFICATION OF GCP GROUPINGS

Include the GCP groupings that are defined by Figure CC-6-2 in Section CC. The Offeror is not required to further expand this list.

3. CONVERSION APPROACH/IMPLEMENTATION GUIDELINES

Refer to Section CC, Paragraph CC.6.2.2. The Offeror shall describe its understanding of the management and logistical problems inherent with the scope and complexity of the conversion effort presented by this solicitation, and propose any unique conversion approach(es) that will achieve the following objectives:

- o Provide complete "turn-key" conversion services to department/agency offices that are unable to provide any substantial management/technical support to the conversion effort. By "turn-key" is meant that the Contractor would be responsible for the performance of conversion management and technical tasks.

- o Provide "selected" conversion services to department/agency offices that prefer some degree of either management or technical involvement in the conversion effort. By "selected" is meant that the Government would be responsible for the performance of certain conversion tasks, or portions thereof.

- o Provide conversion tools, conversion training, and either remote or on-site conversion support to department/agency offices that prefer to perform conversion using their own management and technical staff.

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The Offeror should include in the description of the conversion approach(es) any significant cost, efficiency, or management benefits provided by the proposed approach(es), and an assessment of the risks associated with the use of the approach(es).

4. GCP DEVELOPMENT PROCEDURES

Refer to Section CC, Paragraph CC.6.2.6 and Subsection CC.7.

5. SCP DEVELOPMENT PROCEDURES

Refer to Section CC, Paragraph CC.4.1.3, CC.6.2.7 and CC.8.4.

6. SOFTWARE CONFIGURATION MANAGEMENT PLAN

Refer to Section CC, Paragraph CC.6.2.5. The software configuration management plan must address the following:

- o Levels of Government control and monitoring required to implement a comprehensive system of software configuration management to support the conversion process.
- o The guidelines and procedures for implementing software configuration management at the following project levels:
    - MCP (i.e., project-wide).
    - GCP (i.e., groupings of organizational/geographical sites).
    - SCP (i.e., unique site).
- o Concerns relating to the implementation of software configuration management on standard development systems (refer to Section CC, Subsection (CC.2). This must address the following:
    - Tracking application software release levels (application and program levels) on dependent standard development systems.
    - Change control of standard applications where changes could occur that would affect both standard production systems that have been converted and standard production systems that have not been converted.

- The integration of software configuration management with work package monitoring and tracking as necessary to accommodate change control in applications during the conversion process.

The plan also must provide a detailed description of the proposed automated software configuration management system (SCMS) (or systems) that will be used to support the software configuration management processes. The description of the SCMS must include the following:

a. Implementability - A list of the current/target environment equipment(s) on which the SCMS will operate, and the implementation requirements for each equipment type.

b. General Description - Provide an overview of the SCMS to include the following topics:

   1. Responsiveness - Describe how the SCMS is responsive to the requirments and objectives of this solicitation.

   2. Operation and Control - Define how the SCMS fits into the overall software configuration managment plan; also define who will operate and control the SCMS.

   3. Flexibility/Adaptability - Describe the degree to which the SCMS can support changes in management metholodogy, requirements, or objectives. Describe the steps required to alter SCMS implementation to accommodate changes in the aforementioned areas.

c. Functions - Describe each major function performed by the SCMS. Include required inputs, outputs, and error/exception reporting provided to the user.

d. Mode of Operation - Indicate whether the SCMS operates in batch or interactive mode.

e. Integratability with the WPMTS - Describe how the SCMS will integrate with the WPMTS (work package monitoring and tracking system).

f. User Skill Requirements - Describe the knowledge and skill level required of the user.

g. Users Guide/Manual - Provide the users guide/manual that would be supplied to the Government subsequent to the award of this solicitation.

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7. GCP APPROVAL PROCESS

Refer to Section CC, Paragraph CC.6.2.8.

8. GCP REVIEW PROCESS

Refer to Section CC, Paragraph CC.6.2.12

9. SCP APPROVAL PROCESS

Refer to Section CC, Paragraph CC.6.2.9.

10. CONTRACTOR MANAGEMENT PROCESS/TEAM

Refer to Section CC, Paragraph CC.6.2.10.

11. GOVERNMENT MANAGEMENT PROCESS/TEAM

Refer to Section CC, Paragraph CC.6.2.11.

12. SCHEDULE OF GCP DEVELOPMENT

Include the schedule presented in Section CC, Figure CC-7-1.

MCP ATTACHMENTS

A. CSTG ROLES AND RESPONSIBILITIES

The Offeror is to propose the roles and responsibilities of the Conversion Support Task Group (CSTG). This proposal should be made with respect to the Offeror's proposed conversion appoach(es) and tools/aids.

B. MCP MANAGER ROLES AND RESPONSIBILITIES

The Offeror is to propose the roles and responsibilities of the MCP manager. Of particular importance is the coordination and accomplishment of MCP ammendments during Phase II (GCP development).

C. GCP MANAGER ROLES AND RESPONSIBILITIES

The Offeror is to propose the roles and responsibilities of the GCP manager. Of particular importance is the coordination and accomplishment of GCP modifications during Phase III (SCP development).

D. SCP MANAGER ROLES AND RESPONSIBILITIES

The Offeror is to propose the roles and responsibilities of the SCP manager. Of particular importance is the coordination of Government and Contractor resources during the SCP development task, the conversion process (e.g., implementation of software configuration management and work package monitoring and tracking, the establishment of conversion priorities, work package and acceptance testing), and the post conversion period (parallel operations support management, latent defect identification and repair, etc.).

E. CONTRACTOR ROLES AND RESPONSIBILITIES

The Offeror is to propose the roles and responsibilities of the Contractor in the MCP, GCP, and SCP management, development, and coordination processes. The Offeror must also propose its relationship with the CSTG.

F. GCP DEVELOPMENT PROCEDURES

This attachment is to contain the detailed GCP development procedures described in MCP Section 4 (above).

G. SCP DEVELOPMENT PROCEDURES

This attachment is to contain the detailed SCP development procedures described in MCP Section 5 (above).

H. DRAFT CONVERSION TASK PACKAGE(S) (CTP)

Refer to Section CC, Paragraph CC.6.2.13. The Offeror is to develop the detailed format and content specifications for the CTP(s). One CTP is required for each proposed conversion approach (refer to Section CC, Paragraph CC.6.2.2).

A CTP shall consist of one (1) Conversion Task Description (CTD) for each of the conversion tasks listed in Attachment XII.

Each CTD will provide the following:

a. Task Description - A description of the conversion task and subtasks.

b. Contractor Work Specification - A detailed statement of work for the portions of the task which are to be performed by the Contractor.

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c. Contractor Firm-Fixed-Price Quotation - A quotation of the staff days and costs for the Contractor's performance of the Contractor Work Specification.

d. Statement of the Government's Participation - A detailed statement describing the degree of Government participation in the performance of the conversion task, or portions thereof.

e. Estimate of Government Costs - An estimate of the staff days and costs for the Government's participation in task execution.

f. Total Cost Estimate - The sum of the Contractor's firm-fixed-price quotation and the estimate of Government Cost. The Site Conversion Worksheets shown in Section B, Figures B-5-a through B-5-f should be used as a guideline for the development of the total cost estimate.

I. SCP PRICING GUIDELINES AND WORKSHEETS

Refer to Section CC, Paragraph CC.6.2.14. The Offeror must propose SCP pricing methodology, worksheets and the pricing algorithms which will be used to calculate both Government and Contractor conversion task costs during the SCP development process. Instructions for use shall be fully detailed and worksheets utilized in this attachment with sample data, and in an identical method as is used to prepare Volume III of the Offeror's cost proposal. All costs must be substantiated by the Offeror's fixed-price methodology submitted as Section 4 Volume II-B of the Offeror's proposal.

J. SOFTWARE CONFIGURATION MANAGEMENT PLAN

This attachment is to contain the detailed software configuration management guidelines and procedures as specified in MCP Section 6 (above), and the SCMS(s) user guide/manual.

K. QUALITY ASSURANCE PLAN

Refer to Section CC, Paragraph CC.6.2.3. The Offeror must propose quality assurance (QA) guidelines, procedures and standards to be applied to the various documentation and conversion products which will be produced during the life of the project.

The guidelines must describe the following:

- The implementation and accomplishment of QA at the MCP, GCP and SCP levels (e.g., department/agency, group, and unique sites).
- The products that are subject to the QA review process.
- The interaction between QA, project and conversion management, and department/agency management (e.g., QA management roles, responsibilities, reporting requirements, etc.).

Procedures and standards must be provided for the review and approval of the products listed in item b (above).

The Offeror should ensure that the QA guidelines and procedures incorporate any unique considerations presented by the Offeror's proposed conversion approach(es).

L. END-USER TRAINING PLAN

Refer to Section CC, Paragraph CC.6.2.4. The Offeror is to propose a plan and implementation guidelines to accomplish end-user training. The plan must address the following concerns:

- The management, coordination and logistical problems inherent with the scope and complexity of this solicitation.
- Any unique considerations associated with the implementation of the proposed conversion approach(es).

M. REPORTING REQUIREMENTS

Refer to Section CC, Paragraph CC.6.2.15.

SECTION J

ATTACHMENT XV

GCP/SITE CROSS-REFERENCE

NOTE: This attachment provides a cross-reference of sites by organization code/name for each of the Group Conversion Plans identified in Section CC, Paragraph CC.5.2.1. Agencies other than the Department of State use a different method of assigning organization codes. Thus, the organization codes shown here for the other agencies are for Department of State inventory control purposes only.

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GROUP CONVERSION PLAN: DOS Foreign Posts/ARA

ORG CODE	SITE NAME/MNEMONIC
310201	BUENOS ARIES
310301	NASSAU
310401	LA PAZ
310500	ANTIGUA
310501	ST JOHNS
310601	BRASILIA
310607	RIO DE JANEIRO
310612	SAO PAULO
310701	GEORGETOWN
310801	SANTIAGO
310901	BELIZE CITY
311001	BOGOTA
311101	BRIDGETOWN
311201	SAN JOSE
311401	HAVANA
311601	SANTO DOMINGO
311801	QUITO
311802	GUAYAQUIL
312001	SAN SALVADOR
312201	GUATEMALA
312301	SAINT GEORGES
312401	PORT AU PRINCE
312601	TEGUCIGALPA
312701	KINGSTON
312801	MEXICO CITY
312802	CIUDAD JUAREZ
312803	GUADALAJARA
312807	MONTERREY
312809	NUEVO LAREDO
312812	TIJUANA
312814	MAZATLAN
312864	RAMC MEXICO CITY
313001	MANAGUA
313201	PANAMA
313202	PANAMA (STATE SY)
313400	PARAGUAY
313401	ASUNCION
313601	LIMA
313701	PARAMARIBO
313801	MONTEVIDEO
314001	CARACAS
314002	MARACAIBO
314201	PORT OF SPAIN

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GROUP CONVERSION PLAN: DOS Foreign Posts/EUR

ORG CODE	SITE NAME/MNEMONIC
320601	VIENNA
320602	STATE IO/VIENNA
321201	BRUSSELS
321202	ANTWERP
321203	BRUSSELS -USEC
321213	USNATO -MISSION/BRUS
321250	ANTWERP (OPR/STP/T)
321491	HAMILTON
321601	VALLETTA
321701	NICOSIA
321801	ATHENS
321802	THESSALONIKI
322501	SOFIA
322668	STATE IO/MONTREAL
322681	OTTAWA
322682	CALGARY
322684	HALIFAX
322685	MONTREAL
322686	QUEBEC
322689	TORONTO
322692	VANCOUVER
322694	WINNIPEG
322801	PRAGUE
323001	COPENHAGEN
323201	LONDON
323202	BELFAST
323205	EDINBURGH
323401	HELSINKI
323601	PARIS
323602	BORDEAUX
323604	LYON
323605	MARSEILLE
323606	NICE
323607	STRASBOURG
323614	PARIS -OECD
323664	RAMC PARIS
323667	PARIS - UNESCO
324001	BONN
324002	USBERLIN - US MISSION
324003	BREMEN
324004	DUSSELDORF
324005	FRANKFURT
324006	HAMBURG
324007	MUNICH
324008	STUTTGART
324014	HANNOVER

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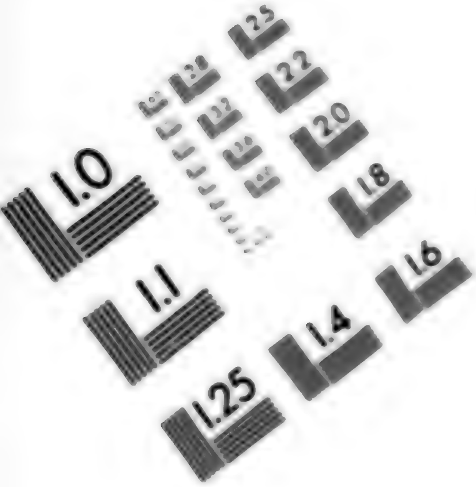
GROUP CONVERSION PLAN: DOS Foreign Posts/EUR (CONTINUED)

ORG CODE	SITE NAME/MNEMONIC
324301	BERLIN
324401	BUDAPEST
324601	REYKJAVIK
324801	DUBLIN
325000	STATE IO/ROME
325001	ROME
325002	FLORENCE
325003	GENOA
325004	MILAN
325005	NAPLES
325006	PALERMO
325007	TRIESTE
325008	TURIN
325021	VATICAN AFFAIRS OFFICE
325201	LUXEMBOURG
325601	THE HAGUE
325602	AMSTERDAM
325603	ROTTERDAM
326201	OSLO
326401	WARSAW
326402	POZNAN
326403	KRAKOW
326601	LISBON
326801	BUCHAREST
327001	MADRID
327002	BARCELONA
327003	BILBAO
327004	SEVILLE
327401	STOCKHOLM
327402	GOTEBORG
327601	BERN
327602	STATE RP/GENEVA
327603	GENEVA
327604	ZURICH
328201	ANKARA
328202	ISTANBUL
328401	MOSCOW
328601	BELGRADE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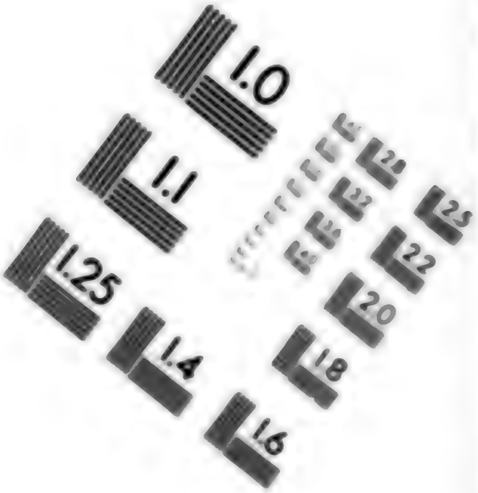
GOVERNMENT PRINTING OFFICE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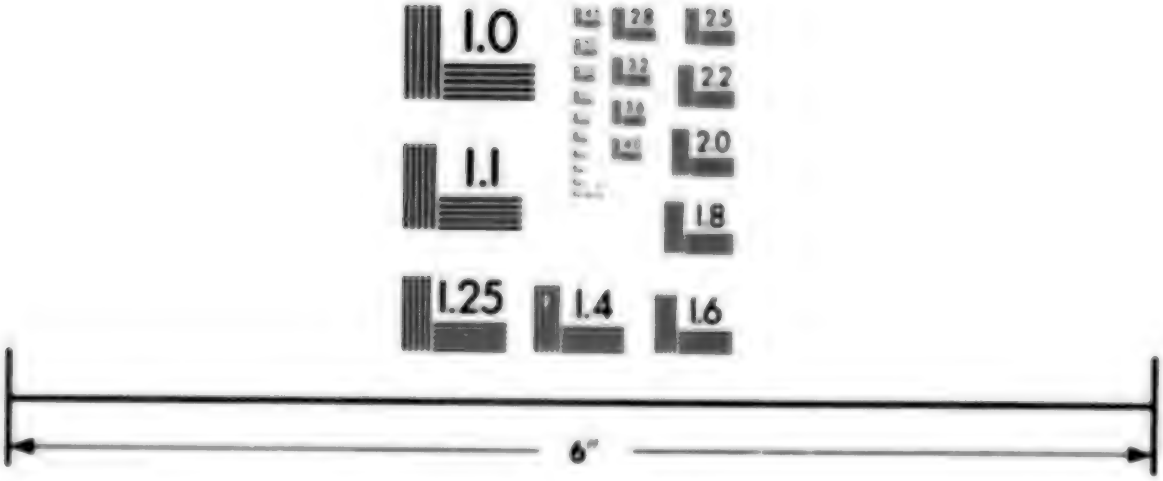
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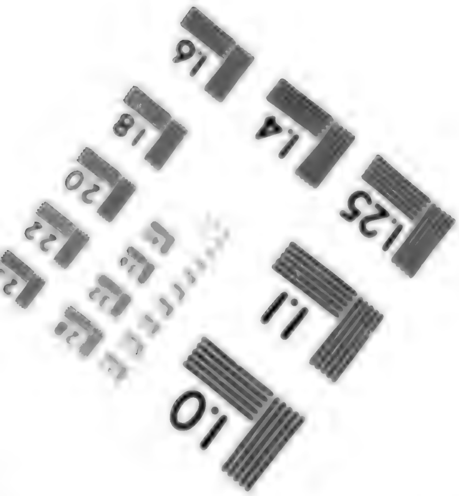
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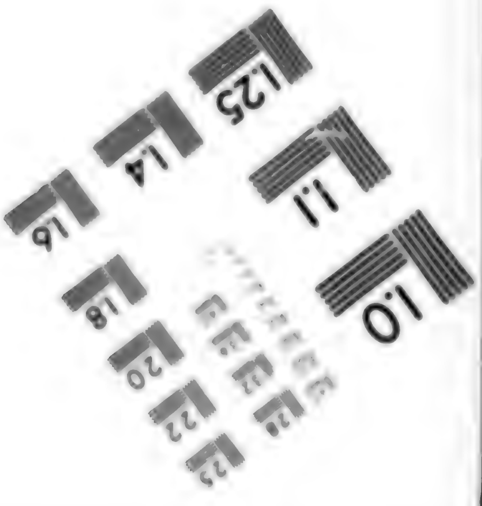
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GROUP CONVERSION PLAN: DOS Foreign Posts/EAP

ORG CODE	SITE NAME/MNEMONIC
330230	AIT TAIPEI
330401	HONG KONG
330501	BEIJING
330502	GUANGZHOU
330503	SHANGHAI
330504	YAP DIST
330601	JAKARTA
330701	CANBERRA
330703	BRISBANE
330704	MELBOURNE
330705	PERTH
330706	SYDNEY
330801	TOKYO
330802	FUKUOKA
330803	OSAKA KOBE
330805	SAPPORO
330809	NAHA
331001	SEOUL
331201	SUVA
331301	WELLINGTON
331302	AUCKLAND
331401	MANILA
331402	RP/MANILA
331600	STATE RP/BANGKOK
331601	BANGKOK
331602	CHIANG MAI
331603	UDORN
331604	SONGKHLA
331664	RAMC BANGKOK
331801	SINGAPORE
331802	RP/SINGAPORE
331901	KUALA LUMPUR
332401	BANDAR SERI BEGAWAN
332601	PORT MORESBY
333101	RANGOON

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GROUP CONVERSION PLAN: DOS Foreign Posts/NEA

ORG CODE	SITE NAME/MNEMONIC
340401	KABUL
340501	ALGIERS
340801	MANAMA
340901	DHAKA
341201	COLOMBO
341601	CAIRO
341602	ALEXANDRIA
342801	NEW DELHI
342802	BOMBAY
342803	CALCUTTA
342804	MADRAS
343201	BAGHDAD
343801	TEL AVIV
343803	JERUSALEM
344001	AMMAN
344101	TAIZ
344102	SANAA
344501	KUWAIT
345601	RABAT
345602	CASABLANCA
346001	KATHMANDU
346201	ISLAMABAD
346202	LAHORE
346203	PESHAWAR
346205	KARACHI
346301	MUSCAT
346401	DOHA
347001	RIYADH
347002	DHAHRAN
347003	JEDDAH
347601	DAMASCUS
348001	TUNIS
348301	ABU DHABI

GROUP CONVERSION PLAN: DOS Foreign Posts/AF

ORG CODE	SITE NAME/MNEMONIC
350401	DJIBOUTI
350701	MASERU
350801	KINSHASA
350802	LUBUMBASHI
350901	MBABANE
351001	YAOUNDE
351002	DOUALA
351101	GABARONE
351201	BANGUI
351401	PRAIA
351501	N'DJAMENA
351801	COTONOU
352001	ADDIS ABABA
352101	BRAZZAVILLE
352201	DAKAR
352301	LIBREVILLE
352401	ACCRA
352801	CONAKRY
353001	ABIDJAN
354201	NAIROBI
354301	BUJUMBURA
354401	KIGALI
354801	MONROVIA
355401	ANTANNARIVO
355501	BAMAKO
355701	NOUAKCHOTT
355801	MAPUTO
355901	NIAMEY
356001	LAGOS
356002	KADUNA
356101	FREETOWN
356201	MOGADISHU
356301	LUSAKA
356401	LILONGWE
356601	PORT LOUIS
356901	VICTORIA - MAHE
357400	SOUTHERN RHODESIA
357401	HARARE
357501	KHARTOUM
357601	DAR ES SALAAM
357701	BANJUL
357801	LOME
358201	KAMPALA
358401	PRETORIA
358402	CAPE TOWN
358403	DURBAN
358404	JOHANNESBURG
358501	OUGADOUGOU

GROUP CONVERSION PLAN: DOS Foreign Posts/CIHS

ORG CODE	SITE NAME/MNEMONIC
358997	FOREIGN CIHS SITES
358998	FOREIGN CIHS SITES
358999	FOREIGN CIHS SITES
359001	FOREIGN CIHS SITES

GROUP CONVERSION PLAN: DOS Domestic Regional Bureaus/ARA

ORG CODE	SITE NAME/MNEMONIC
110100	STATE ARA
110120	STATE ARA: RPP
110130	STATE ARA: PPC
110200	STATE ARA: EX
110600	STATE ARA: USOAS
110900	STATE ARA: CCA
111300	STATE ARA: SC
111500	STATE ARA: CAR
111600	STATE ARA: CEN
111700	STATE ARA: AND
111900	STATE ARA: MEX

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GROUP CONVERSION PLAN: DOS Domestic Regional Bureaus/EUR

ORG CODE	SITE NAME/MNEMONIC
120100	STATE EUR
120101	STATE EUR: PA
120109	STATE EUR:PP
120200	STATE EUR: EX
120800	STATE EUR: RPM
120900	STATE EUR: RPE
121200	STATE EUR: SOV
121300	STATE EUR: CE
121400	STATE EUR: WE
121700	STATE EUR: CAN
121800	STATE EUR: NE
122100	STATE EUR: EEY
122200	STATE EUR: SE

GROUP CONVERSION PLAN: DOS Domestic Regional Bureaus/EAP

ORG CODE	SITE NAME/MNEMONIC
130100	STATE EAP
130101	STATE EAP: EP
130200	STATE EAP: EX
130300	STATE EAP: P
130600	STATE EAP: RA
130700	STATE EAP: C
131000	STATE EAP: RA/TC
131100	STATE EAP: K
131200	STATE EAP: J
131400	STATE EAP: VLC
131600	STATE EAP: ANZ
131700	STATE EAP: IMBS
131900	STATE EAP: PHL
132000	STATE EAP: PIA
132100	STATE EAP: T

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GROUP CONVERSION PLAN: DOS Domestic Regional Bureaus/NEA

ORG CODE	SITE NAME/MNEMONIC
140100	STATE NEA
140101	STATE NEA: PA
140200	STATE NEA: EX
140300	STATE NEA: ECON
140600	STATE NEA: RA
141000	STATE NEA: ARN
141200	STATE NEA: ARP
141300	STATE NEA: IAI
141800	STATE NEA: INS
141900	STATE NEA: PAB

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GROUP CONVERSION PLAN: DOS Domestic Regional Bureaus/AF

ORG CODE	SITE NAME/MNEMONIC
150101	STATE AF
150102	STATE AF: EPS
150103	STATE AF: P
150200	STATE AF: EX

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GROUP CONVERSION PLAN: DOS ISO DOMESTIC

ORG CODE	SITE NAME/MNEMONIC
209000	STATE A/ISO
209010	STATE A/ISO/USS
209100	STATE A/ISO/SDP
209200	STATE A/ISO/FADPC

GROUP CONVERSION PLAN: DOS Domestic Consular Affairs

ORG CODE	SITE NAME/MNEMONIC
280100	STATE CA
280200	STATE CA: EX
280210	STATE CA: EX/SA
280241	STATE CA: EX/AG
282410	STATE CA: VO/L/R

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GROUP CONVERSION PLAN: DOS Office of Comptroller (except M/COMP/FS)

ORG CODE	SITE NAME/MNEMONIC
080000	STATE M/COMP
083000	STATE M/COMP/BP
086000	STATE M/COMP/FO

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GROUP CONVERSION PLAN: DOS M/COMP/FS

ORG CODE	SITE NAME/MNEMONIC
085000	STATE M/COMP/FS

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GROUP CONVERSION PLAN: DOS PM, INR, A/SY

ORG CODE	SITE NAME/MNEMONIC
014010	STATE PM: OD
014020	STATE PM: EX
014230	STATE PM: AS/MC
014520	STATE PM: ST/TMP
060000	BUR OF INT & RES.
061000	STATE INR
061100	STATE INR: EX
061300	STATE INR: IS
062100	STATE INR: AA
062200	STATE INR: IAA
062300	STATE INR: EAP
062500	STATE INR: NESA
062600	STATE INR/SEE
062700	STATE INR: WEA
063500	STATE INR: PMA
064000	STATE INR: C
064120	STATE INR: IL/CO
064300	STATE INR/IRE
064400	STATE INR: IC
064420	STATE INR/IC/MP
065000	STATE INR/AR
065020	STATE INR: RCRS
065100	STATE INR: LAR
065120	STATE INR/LAR/CR
065200	STATE INR: EC
065300	STATE INR: GE
065400	STATE INR/GI
065420	STATE INR/GI/T
250100	STATE A/SY
250104	STATE A/SY/SAS
250107	STATE A/SY/ET
250210	STATE A/SY/I/GIB
250400	STATE A/SY/FO
250500	STATE A/SY/DO
250600	STATE A/SY/T
251000	STATE A/SY/CC
251400	STATE SY/OPS/FO
251600	STATE A/SY/PSD
251999	STATE SY/I
252000	STATE A/SY/I/SFO
252100	STATE A/SY/I/WFO
252200	STATE A/SY/I-BFO
252300	STATE A/SY/I-CFO
252400	STATE A/SY/I/LAFO

GROUP CONVERSION PLAN: DOS PM, INR, A/SY (CONTINUED)

ORG CODE	SITE NAME/MNEMONIC
252500	STATE A/SY/I/MFO
252600	STATE A/SY/I/NYFO
252800	STATE A/SY/I-DFO
252900	STATE A/SY/PFO
253200	STATE SY/PRS/DP
253600	STATE A/SY/ETS
253800	STATE A/SY/FYPS
25XXXX	STATE DIP/SY (NEW)

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GROUP CONVERSION PLAN: DOS INM, OES, RP, IO

ORG CODE	SITE NAME/MNEMONIC
019100	STATE INM
019300	STATE INM/EX
020100	STATE OES
021000	STATE OES: EX
031100	STATE RP
031103	STATE RP/NEW YORK
031140	STATE RP: EX
031200	STATE RP: BP
031240	STATE RP: BMI
160100	STATE IO
160103	STATE IO/VIENNA
161084	STATE IO: USUN
163100	STATE IO: UNP
163300	STATE IO: HR
164800	STATE IO: S
165100	STATE IO: OIC
165400	STATE IO/IR
165500	STATE IO: OB

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GROUP CONVERSION PLAN: DOS OPR

ORG CODE	SITE NAME/MNEMONIC
220000	STATE A/OPR
220001	STATE A/OPR/WCF
220110	STATE A/OPR/SPS
220500	STATE A/OPR/FMAS
220700	STATE A/OPR/FMAS/ESC
220900	STATE A/OPR/FMAS/GS
221000	STATE A/OPR/FMAS/LS
221100	STATE A/OPR/STP
221110	STATE STP/S (WAREHOUSE)
221120	STATE A/OPR/STP/P
221130	STATE A/OPR/STP/T
221132	STATE A/OPR/STP/T/TO
221171	STATE A/OPR/STP/T/BA
221182	STATE A/OPR/STP/T/MI
221184	STATE A/OPR/STP/T/NY
221190	STATE A/OPR/STP/T/SF
226000	STATE A/OPR/FAIM
226020	STATE OPR/FAIM/DIR
226800	STATE A/OPR/FAIM/LR

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GROUP CONVERSION PLAN: DOS OC

ORG CODE	SITE NAME/MNEMONIC
270100	STATE A/OC
270130	STATE A/OC/SPP
270131	STATE A/OC/SP
271200	STATE A/OC/TR
271400	STATE A/OC/S
271500	STATE A/OC/PE
271520	STATE A/OC/PE/TSE
271600	STATE A/OC/ML
271640	STATE A/OC/ML/LO
274200	STATE A/OC/TS/PE
274300	STATE A/OC/TS/ML

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GROUP CONVERSION PLAN: DOS All Other Domestic Organizations

ORG CODE	SITE NAME/MNEMONIC
010101	STATE S: S
010108	STATE S: S/R
010110	STATE S: S/SW
010200	STATE S: CPR
010621	STATE S: S-S
010622	STATE S: S-O
010623	STATE S: S-I
010630	STATE S: S-EX
011100	STATE S: P
011200	STATE D
011205	STATE M: CT
011300	STATE M/CTP
011500	STATE P
011600	STATE S: T
011700	STATE S: E
012100	STATE M
012103	STATE M/WHL
012200	STATE M: EX
012300	STATE M: CMIS
012400	STATE M: FA
012500	STATE M: EEOCR
012600	STATE M: FLO
012700	STATE M: MO
012900	STATE M/OFM
013000	STATE S/IG
013400	STATE S/IG/IS
013600	STATE S/IG/EX
016000	STATE M/MED
016060	STATE M/MED
016900	STATE MED/EX
018000	STATE HA
040100	STATE L
044100	STATE L: IC
044200	STATE L: CMB
050100	STATE EB
050300	STATE EB: PAS
070000	STATE H
100200	STATE PA: EX
101000	STATE PA: HO
101100	STATE PA: PRESS
101500	STATE PA: PP

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GROUP CONVERSION PLAN: DOS All Other Domestic Organizations (CONTINUED)

ORG CODE	SITE NAME/MNEMONIC
201000	STATE A
201010	STATE A/ISS
201100	STATE A/EX
201110	STATE A/EX/ASD
201600	STATE A/CDC
201700	STATE A/SPL
203100	STATE A/OS
203300	STATE A/ALS
208000	STATE A/FBO
208100	STATE A/FBO/ADMS
208300	STATE A/FBO/OP
210010	STATE M/DGP/PC
210100	STATE M/DGP/PER
210700	STATE M/DGP/PA
212800	STATE PER/PPM
213000	STATE PER/REE
214000	STATE PER/FCA
214900	STATE PER/CCA
215000	STATE PER/MGT
215600	STATE PER/MGT/OS
215800	STATE PER/MGT/RMR
216100	STATE PER/ER/RET
260100	STATE M/FSI
260200	STATE M/FSI/EX
260260	STATE M/FSI/DP
260300	STATE M/FSI/SPS

GROUP CONVERSION PLAN: AID MACS Sites Overseas

ORG CODE	SITE NAME/MNEMONIC
D11201	AID/SAN JOSE
D11601	AID/SANTO DOMINGO
D11801	AID/QUITO
D12001	AID/SAN SALVADOR
D12201	AID/GUATEMALA
D12601	AID/TEGUCIGALPA
D12701	AID/KINGSTON
D13201	AID/PANAMA
D13601	AID/LIMA
D30601	AID/JAKARTA
D31401	AID/MANILA
D31601	AID/BANGKOK
D41201	AID/COLOMBO
D41601	AID/CAIRO
D42801	AID/NEW DELHI
D44101	AID/SANAA
D45601	AID/RABAT
D46201	AID/ISLAMABAD
D50901	AID/MBABANE
D53001	AID/ABIDJAN
D54201	AID/NAIROBI
D57401	AID/HARARE
D57501	AID/KHARTOUM

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GROUP CONVERSION PLAN: AID Non-MACS Sites Overseas

ORG CODE	SITE NAME/MNEMONIC
D10401	AID/LA PAZ
D10901	AID/BELIZE
D11101	AID/BRIDGETOWN
D12401	AID/PORT AU PRINCE
D13401	AID/ASUNCION
D14409	AID/GRENADA
D31201	AID/SUVA FIJI
D33101	AID/RANGOON
D40901	AID/DHAKA
D44001	AID/AMMAN
D44601	AID/BEIRUT
D46001	AID/KATHMANDU
D48001	AID/TUNIS
D50401	AID/DJIBOUTI
D50701	AID/MASERU
D50801	AID/KINSHASA
D51001	AID/YAOUNDE
D51101	AID/GABORONE
D51401	AID/PRAIA
D52001	AID/ADDIS ABABA
D52201	AID/DAKAR
D52401	AID/ACCRA
D52701	AID/BISSAU
D52801	AID/CONAKRY
D53524	AID/N'DJAMENA
D54301	AID/BUJUMBURA
D54401	AID/KIGALI
D54801	AID/MONROVIA
D55401	AID/ANTANANARIVO
D55501	AID/BAMAKO
D55701	AID/NOUAKCHOTT
D55801	AID/MAPUTO
D55901	AID/NIAMEY
D56001	AID/LAGOS
D56101	AID/FREETOWN
D56201	AID/MOGADISHU
D56301	AID/LUSAKA
D56401	AID/LILONGWE
D57601	AID/DAR ES SALAAM
D57701	AID/BANJUL
D57801	AID/LOME
D58201	AID/KAMPALA
D58401	AID/PRETORIA
D58501	AID/OUAGADOUGOU

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GROUP CONVERSION PLAN: AID Domestic

ORG CODE	SITE NAME/MNEMONIC
CB0A00	AID/ES
CC0A00	AID/PPC
CD0A00	AID/S&T
CE0B00	AID/M/PM
CE0C00	AID/M/FM
CE1A00	AID/AAA/SER
CE1B00	AID/M/SER/EOMS
CE1C00	AID/IRM
CE1CB9	AID/IRM/ML/R
CE1D00	AID/SER/MO
CE1F00	AID/M/SER/CM
CE1G00	AID/M/SER/COM
CF0A00	AID/FVA
CG0A00	AID/PRE
CH0A00	AID/AFR
CJ0A00	AID/ANE
CK0A00	AID/LAC
CL0A00	AID/XA
CM0A00	AID/LEG
CN0A00	AID/IG
CO0A00	AID/GC
C00010	AID/SCIENCE ADV
C00011	AID/SDB
C00030	AID/DA
CR0A00	AID/OFDA
CW0A00	AID/BIFAD

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GROUP CONVERSION PLAN: USIA Overseas

ORG CODE	SITE NAME/MNEMONIC
B10000	USIA/M/ATS, WASH,DC
B10201	USIA/BUENOS AIRES
B10601	USIA/BRASILIA
B10801	USIA/SANTIAGO
B11101	USIA/BRIDGETOWN
B11601	USIA/SANTO DOMINGO
B12801	USIA/MEXICO
B12807	USIA/MONTERREY
B13201	USIA/PANAMA
B13601	USIA/LIMA
B13801	USIA/MONTEVIDEO
B14001	USIA/CARACAS
B14002	USIA/MARACAIBO
B14201	USIA/PORT OF SPAIN
B20601	USIA/VIENNA
B21201	USIA/BRUSSELS
B22681	USIA/OTTAWA
B22689	USIA/TORONTO
B22692	USIA/VANCOUVER
B23401	USIA/HELSINKI
B23601	USIA/PARIS
B24001	USIA/BONN
B24002	USIA/BERLIN (FRG)
B24005	USIA/FRANKFURT
B24006	USIA/HAMBURG
B24007	USIA/MUNICH
B24008	USIA/STUTTGART
B24014	USIA/HANOVER
B24015	USIA/COLOGNE
B24601	USIA/REYKJAVIK
B26201	USIA/OSLO
B26801	USIA/BUCHAREST
B27002	USIA/BARCELONA
B28202	USIA/ISTANBUL
B28601	USIA/BELGRADE
B30401	USIA/HONG KONG
B30501	USIA/BEIJING
B30701	USIA/CANBERRA
B30801	USIA/TOKYO
B30802	USIA/FUKUOKA
B30803	USIA/OSAKA-KOBE
B30804	USIA/NAGOYA
B30831	USIA/KYOTO

GROUP CONVERSION PLAN: USIA Overseas (CONTINUED)

ORG CODE	SITE NAME/MNEMONIC
B31001	USIA/SEOUL
B31301	USIA/WELLINGTON
B31601	USIA/BANGKOK
B33101	USIA/RANGOON
B41601	USIA/CAIRO
B42801	USIA/NEW DELHI
B42802	USIA/BOMBAY
B42803	USIA/CALCUTTA
B42804	USIA/MADRAS
B43801	USIA/TEL AVIV
B43803	USIA/JERUSALEM
B44001	USIA/AMMAN
B45601	USIA/RABAT
B46201	USIA/ISLAMABAD
B48001	USIA/TUNIS
B50801	USIA/KINSHASA
B52201	USIA/DAKAR
B52399	USIA/ARS PARIS
B52401	USIA/ACCRA
B53001	USIA/ABIDJAN
B56001	USIA/LAGOS
B56301	USIA/LUSAKA
B57401	USIA/HARARE
B57601	USIA/DAR ES SALAAM
B58401	USIA/PRETORIA
B58402	USIA/CAPETOWN
B58404	USIA/JOHANNESBURG

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GROUP CONVERSION PLAN: USIA Domestic

ORG CODE	SITE NAME/MNEMONIC
A00010	USIA/PL
A00020	USIA/GC
A00030	USIA/VOA
A00040	USIA/VOA/A
A00050	USIA/VOA/B
A00060	USIA/VOA/E
A00070	USIA/VOA/P
A00080	USIA/VOA/R
A00090	USIA/P/D
A00100	USIA/P/EO
A00110	USIA/P/G
A00120	USIA/P/FL
A00130	USIA/P/FN
A00140	USIA/P/FW
A00150	USIA/P/P
A00160	USIA/P/R
A00170	USIA/P/X
A00180	USIA/E/X
A00190	USIA/M/ATU
A00200	USIA/M/K
A00210	USIA/M/M
A00220	USIA/M/S
A00230	USIA/TV/FSC
A00240	USIA/TV/M
A00250	USIA/TV/NLV
A00260	USIA/AF
A00270	USIA/AR
A00280	USIA/EA
A00290	USIA/NEA

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SECTION J

ATTACHMENT XVI

ADP APPLICATIONS' DESCRIPTIONS

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PREFACE

This attachment provides general descriptions of the department/agency standard applications operating on Wang VS series equipment types. Such applications are defined as:

> ADP applications that satisfy specific operational and administrative requirements of the owning department/agency. These applications are typically centrally developed and maintained, and may be implemented at any number of domestic and foreign sites.

The development, maintenance and distribution of these applications occur on standard development systems located at various domestic sites (e.g., STATE/A/ISO/USS, STATE/M/COMP/FS, etc.).

Those applications that are distributed by A/ISO/USS are described in Sections 1 through 6. Section 7 provides descriptions of the Financial Management System (FMS; produced by M/COMP/FS) and The Classified Information Handling System (CIHS); produced by A/OC).

It is important to note that all of the A/ISO distributed applications and the majority of those for the other agencies are implemented using a standardized applications environment. This environment is provided by the Controlled User Environment (CUE) system described in Subsection 6.6 of this attachment. CUE also provides a mechanism where locally developed applications may be included under the CUE environment. The majority of the foreign sites use this mechanism.

The standard application descriptions are organized in department/agency order, and are listed in the following manner:

APPLICATION-IDENTIFIER - APPLICATION NAME (APPLICATION MNEMONIC)

The system-id, as a convention, is two alphabetic characters which is used as the first two characters of program and file names within the application. Each description provides an overview of the applications, and provide descriptions of the major functions, files and reports.

Those applications which are scheduled for conversion during Phase I of the conversion effort are indicated in the Table of Contents with an "*". For these applications, the source code, documentation, etc. are in the Reading Room (see Attachment XVIII) and are labelled using the appropriate application identifier.

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SECTION 1

U.S. DEPARTMENT OF STATE

1.1 CM - CORRESPONDENCE RECORDS MANAGEMENT SYSTEM (CRMS)

CRMS was developed by the Department of State to provide offices in the State Department automated assistance in managing and tracking incoming and outgoing correspondence. CRMS provides standardized formats for recording salient information that can be used to identify each piece of correspondence. It also allows the users to search for records using many different criteria. Users may develop their own validation tables and a facility has been provided which allows the definition of non-standard fields that can be used in the record search.

1.1.1 Files and Information

CRMS users may add, modify and delete existing records belonging to the files listed below:

- o Document File - Contains each document uniquely identified by a "log number" which is based on the current year and a computer-generated sequence number. Also, considerable information may be entered about each document. Required information includes the document date, primary and secondary subject codes and document type. In addition, many optional fields are available including extensive information about the disposition of the document.

- o Primary Code Validation File - This files contains the valid primary subject codes that the office wishes to use. The values for these codes must be maintained by the office.

- o Secondary Code Validation File - This file contains the valid secondary subject codes that the office wishes to use. The values for these codes must be maintained by the office.

- o Document Type Validation File - This file contains the valid document types that the office wishes to use. The values for these codes must be maintained by the office.

- o Local Data Name File - This file contains the names of the non-standard user defined fields that can be used in searching. If these names are left blank, the corresponding positions on the data entry screen will not be available for use.

Up to 3 of the fields can be used. Although a new field can be added without harm, the values of these fields should not be changed after they have been used, because information in the corresponding areas on the records will retain their old values.

1.1.2 Reports

- CRMS reports are created through a selection process. The RPC transaction first displays the selection screen, which contains areas for entry of the CRMS data fields that can be used for searching the file. The user is required to select one or more selection criteria. Some fields allow a range to be selected, others allow a single value. The program will only select those records which satisfy all of the selection criteria. Therefore, depending on the fields selected, many different variations of reports can be produced.

1.2 CP - NON-IMMIGRANT VISA COMPUTER-ASSISTED PROCESSING SYSTEM (NIVCAPS)

NIVCAPS was developed by the Department of State to provide automated assistance to visa personnel in processing non-immigrant visa applications and maintaining files associated with that task. It performs the traditional namecheck and refusal update functions of the Automated Visa Lookout System (AVLOS). NIVCAPS generates a number of online files which provide the basis for the instant retrieval of individual records using any of several search criteria. Furthermore, NIVCAPS generates statistical reports and provides instant access to statistical data.

1.2.1 Files and Information

NIVCAPS users may add new records and, in some cases, modify or delete existing records belonging to the files listed below:

- Processed Applications File - Contains applicants' basic biographical data as well as source and type of visa applications.

- Namecheck Hit File - Contains information on applicants for whom the AVLOS found a record on the central file.

- Issuance Counts File - Contains information on applicants who were issued visas without undergoing the normal AVLOS namecheck procedure.

1.2.2 Reports

Following are NIVCAPS reports:

- Visas Issued by Visa Class and Applicant Nationality
- Refusals by Grounds of Ineligibility
- Daily and Periodic Workload Statistics of Approvals and Refusals by Application Source
- Periodic Summation of Visas Issued by Class
- Periodic Summation of Visas Issued and Refused by Applicant Nationality

1.3 CS - CITIZEN SERVICES SYSTEM (CSS)

CSS is an automated version of the registration cards that are used by consular officers to maintain records on American citizens residing in their consular districts. The primary function of the CSS, as developed by the Department of State, is to provide readily available location information on American citizens for use in "welfare and whereabouts" cases and possible evacuation alerts. The CSS produces several reports as well as the data required to produce portions of the annual report on Americans residing abroad.

1.3.1 Files and Information

The user may add new records and modify or delete existing records belonging to the following files:

- Registrant File - Contains identifying, locating, passport, emergency contact, and other information on principal registrants.

- Dependent File - Contains the same type of information on dependents that is found in the Registrant File, plus additional information that links the two Files together.

- Lookout File - Contains basic identifying data on individuals for whom the Department of State has posted a lookout notice or for whom the post has instituted a lookout.

1.3.2 Reports

Following are CSS reports:

- Master List of Registrants
- Master List of Dependents
- Master List of Registrants and Dependents

Users may also select the user defined ad hoc INQUIRY option. INQUIRY is a utility which permits the user to interrogate a file of information. Using a simple English-like syntax, the user types a query at the workstation. The requested report information may be displayed or printed.

1.4 CX - MISCELLANEOUS CONSULAR FUNCTIONS

The Miscellaneous Consular Functions System consists of three auxiliary consular applications developed by the Department of State. The applications complement the Immigrant Visa Applicant Control System (IVACS) and the Non-immigrant Visa Computer-Assisted Processing System (NIVCAPS) by providing supplementary capabilities. Following are descriptions of the applications including file/data base usage:

- o PHON - Provides rapid access to both IVACS and NIVCAPS data bases for the purpose of responding to telephone inquiries. The PHON Case File contains case-related information such as case status, name of petitioner, applicant address, lawyer's name and address, language to be used for correspondence, special interest, date when case should be automatically recalled for review, and interview appointment data.

- o TAPE - Selects the number of the tape on which the IVACS or NIVCAPS record will be placed, and keeps track of the tape on which the record is located. The TAPE Catalog File contains the actual listing of tapes available for use by IVACS and NIVCAPS as well as an indicator which will allow the user to determine the contents of tapes.

- o TTYREP - Allows IVACS and NIVCAPS users at CRT workstations to interface with the Automated Visa Lookout System (AVLOS). It provides the capability to perform visa namechecks, visa refusal updates, and passport namechecks, as well as transmit administrative messages. TTYREP contains no data files of its own but accesses the AVLOS files.

1.4.1 Reports

Following are the CX reports by application:

- o PHON (No reports)

- o TAPE

  - Tape Catalog in Tape Number Order
  - Tape Catalog in Catalog Reference Name Order

- TTYREP
  - Visa Lookout Namecheck Response
  - Passport Namecheck Response

1.5 DA - BUDGET AND MANAGEMENT (DATEL)

DATEL was developed under the Department of State by the Regional Area Management Center (RAMC) in Mexico City to provide budget and fiscal support until the Financial Management System (FMS) is completed. Latin American posts use DATEL to provide financial input which enables RAMC Mexico City to produce paychecks. DATEL also does simple account reporting such as keeping track of liquidations and obligations.

1.5.1 Files and Information

DATEL produces a series of reports, updated daily, listing the obligations and liquidations contained in the data file. The data files are archived daily for use as reference.

- Fiscal Data File - Contains a financial transactions package of 15 files ranging from Accounting/Refund and Reimbursements to Liquidations and Accommodations Exchange.

- Table File - Contains the tables necessary to validate different portions of the accounting codes of the Fiscal Data File.

1.5.2 Reports

DATEL generates the following reports:

- Check-Writing Report
- Liquidations Report
- Liquidations/Checks Balance Report
- Obligations Report
- Allotment Report

1.5.3 Other Features

DATEL can also produces archive diskettes containing the reports and information to be sent to RAMC Mexico City.

1.6 ES - EXPENDABLE SUPPLY (EM/ES)

The Expendable Supply application allows expendable supply functions, issues, inventories, and so on, to be done for all of the supply areas. The application was developed by American Embassy Bonn with approval and assistance from ISO/USS in the Department of State.

The application is installed in two parts, EM (Main Inventory) and ES (Supply Room Operation). Whether both applications will be used depends on how expendable supplies are maintained at a post. If there is only one source of expendable supplies at a post, EM should be used. If the post has a main supply source and subsidiary supply areas where supplies are received from the main supply source and then issued to personnel, both EM and ES should be used.

1.6.1 Files and Information

The user may add new records and modify or delete existing records belonging to the following files:

- Back-Order File - Contains data pertaining to back orders (orders that could not be filled due to lack of inventory).
- Customer File - Contains information on customers (that is, Mission elements and individuals) who will be issued expendable supplies.
- Pending Disposal File - Contains information on items that have been marked for disposal (damaged inventory).
- Inventory Record File - Contains information on items that are being inventoried.
- Item File - Contains information on all items that are available in the system.
- Pending Order File - Contains information on all orders that have been placed but not yet received.
- Order Proposal File - Contains information on all orders that have been proposed but not yet issued.
- Reports Schedule - Contains information on all available reports.
- Suppliers File - Contains information on vendors from whom expendable supplies are ordered.
- Transaction File - Contains information on each transaction that has been done in the system.

1.6.2 Reports

Following are EM/ES Reports:

- Stock Report
- Customer Report (cumulative)
- Customer Account (individual)
- Issues by Customer/Agency
- Back Order Status Report
- Analysis of Supply Transactions
- Pre-printed Requisition
- Adjustments Report for Accountable Officer
- Pending Disposals
- Supply Catalog
- Annual Consumption Report
- Customer Number List
- Source of Supply List
- Expendable Supply Consumptions Report for B & F

1.7 IV - IMMIGRANT VISA APPLICANT CONTROL SYSTEM (IVACS)

IVACS is an automated case-tracking system, developed by the Department of State, for use in the control and documentation of the immigrant visa process. IVACS provides assistance in the management and control of an applicant's record from initial registration to the final interview and issuance or refusal of the visa. A computer record becomes the case control card, and IVACS automatically accomplishes most of the functions of quota control. Applicant records are available to consular section personnel for inquiry and update at all times. IVACS supports the creation and retrieval of applicant records, preparation of correspondence, processing of clearances, scheduling of appointments, applicant namechecks, printing of visas, and generation of reports.

1.7.1 Files and Information

Users may add new records and modify or delete existing records belonging to the following files:

- Applicant File - Contains applicant-related information such as name and aliases, biographical data, relationship to principal applicant, foreign state chargeability, travel status, types and dates of clearance requests, visa category, namecheck response, microfilm reference number and issuance refusal data.

- Case File - In addition to duplicating portions of the information contained in the Applicant File associated with each case, this file contains case-related information such as case status, name of petitioner, applicant address, lawyer's name and address, language to be used for correspondence,

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special interest, date when case should be automatically recalled for review and interview appointment data.

- Qualifying Date File - Contains the immigrant visa qualifying dates periodically published by the Visa Office.
- Eligible To Be Scheduled File - Contains a list of cases which have met certain criteria and are ready to be scheduled for interviews. IVACS automatically generates this file when certain critical data fields have been correctly filled, and when a time criterion established by the Cutoff Date File has been met. The user cannot directly modify this file.
- Visa Authorization File - Contains the Immigrant Visa authorizations distributed to the post every month by the Visa Office.
- Cutoff Date File - Contains the immigrant visa cutoff dates published monthly by the Visa Office.

1.7.2 Reports

Following are IVACS reports:

- Cases Deleted
- New Cases Entered Into the Data Base
- Preference Visa Applicants Reported Qualified (FS-469)
- Returned Visa Authorizations
- Immigrant Visas Issued During Specified Month
- Appointment Schedule
- Monthly IV Workload (OF-186)
- Annual Report of Active/Inactive Applicants
- Recalled Cases
- Refused Applicants
- Adjudicated Special Interest Cases
- Applicants with Overcome/Waived Refusals

1.8 LI - IMMIGRANT VISA CONTROL AND REPORTING SYSTEM (ICARS)

ICARS is an application local to CA which assists the Visa Office in allocating numerically controlled immigrant visas to posts and the Immigration Service by preference class and foreign state chargeability. It also produces the immigrant and non-immigrant visa statistics that go into the annual Report of the Visa Office. Posts with either the IVACS or the NIVCAPS applications transmit a number of their visa reports to the Visa Office on diskette for direct entry into ICARS.

1.8.1 Files and Information

- Allocations File - Contains the numbers of visas which have been given to posts and INS to apply to individual cases of clients seeking immigrant visas (or, for INS, adjustment to immigrant status).

- Demand File - Contains the numbers of people in each preference and foreign state category who are waiting for visas to be allocated to them.

- Worldwide Control File - Contains the cut-off dates for all categories of immigrant visas, plus the annual and quarterly limits of numbers of visas.

- Returned Allocations File - Contains the numbers of visas which have not been used by posts and the INS and have therefore been returned to the Visa Office for allocation elsewhere.

1.8.2 Reports

- Fiscal year summary of visas issued
- Report of visas issued and adjustments
- Fiscal year report of preference and nonpreference visas issued
- Fiscal year report of immediate relative visas issued
- Fiscal year report of special immigrant visas issued
- Fiscal year report of visas issued pursuant to public law
- Report of nonimmigrant visas issued
- Fiscal year report of visas refused
- Visa workload measurement report
- CY active IV applications by foreign state/preference category
- CY active IV applications by registration date/foreign state

1.9 CW - CONSULAR WORKLOAD STATISTICS SYSTEM (CWSS)

CWSS permits posts with Wang VS computers to produce a diskette with the six schedules of statistics required for the annual consular package, instead of preparing that information in airgram form. Data from airgrams (which are submitted by non-automated posts) are keyed in Washington, and the whole is reordered and printed in several forms.

1.9.1 Files and Information

- Bureau/Post File - Contains the names of posts, their three-letter codes, and their corresponding bureau numbers.

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- Parameter File - Contains information on the fiscal years that are to be included in the report.
- Remote Entry File - Contains the information entered at a post. There is the actual data for schedules 1-6 for the last fiscal year and the estimates for the next three years for schedules 1-4.
- Estimate File - Contains the estimates of schedules 1-4 for three fiscal years into the future, taken from the remote entry file.
- Old Estimate File - Last year's estimate file.
- Master File - Historical data for all schedules.

1.9.2 REPORTS

- Annual Report
- Feedback Report
- Single Post Report
- Comparison Report

1.10 PE - PERSONNEL

The Personnel application, developed by the Department of State, is designed to replace reliance on paper and card files as a source for reports and tabulations. This application is not intended to replace all paper records or personnel files. It allows for storage and retrieval of personnel information on American employees and their dependents, Foreign Service Nationals (FSNs) and their dependents, job positions for Americans and FSNs, salary information, departure of Americans and FSNs, and telephone directory information. Users can rapidly retrieve information on employees and dependents, which is particularly useful in emergency cases. Reports are automatically generated.

1.10.1 Files and Information

The personnel officer may add new records and modify or delete existing records belonging to the following files:

- Employee Files for Americans and FSNs - Contains all necessary personnel information about American and FSN employees stationed at a post.

- Position Files for Americans and FSNs - Contains information concerning all positions established for American and FSN personnel at a post.

- Dependent Files for Americans and FSNs - Contains information on an employee's dependents.

- Departed Files for Americans and FSNs - Contains personnel information pertaining to an employee who has departed a post. A record is automatically created when an employee is deleted from the American and FSN Employee File.

- Pay Scale File - Contains all pay schedules used at post. Can also include information for FSN pay such as adjusted salaries, fringe benefits, bonuses and U.S. Government contributions to local social plans.

- Telephone Directory File - Contains Emergency, City Services, Medical Services, Functional, and Organizational categories (with post's option for additional subcategories) that with the Employee files comprises the telephone directory.

Also, users may select the INQUIRY option from the main menu to create, store and run their own query statements.

1.10.2 Reports

Following are PE reports:

- American/FSN/Combined Staffing Pattern

  - Staffing Pattern Complement Summary
  - Staffing Pattern Cross-Reference
  - Staffing Pattern Summary by Source of Funds

- Telephone Directory
  - FSN Mass Pay Change
  - Pay Scale Grade/Step Report
  - Pay Scale Contribution/Bonus Report
  - American Visa Renewal Report
  - American Passport Renewal Report
  - American Scheduled Arrivals/Departures
  - American/FSN Positions Vacant
  - FSN End Probationary Period Report
  - FSN Performance Evaluation Report
  - American/FSN Mass Printouts
  - FSN Monthly PSI Report
  - Monthly Conditional FSN Report
  - Annual FSN Retirement Eligibility Report
  - FSN and American Positions Established Report

- FSN and American Positions Vacant Report
- FSN and American Positions Abolished Report
- Statistical Reports by Average Years Service, and Age Group for FSNs and Americans

1.11 PP - NON-EXPENDABLE PROPERTY APPLICATION (NEPA)

This application, developed by the Department of State, provides information on the location of non-expendable property, facilitates estimates of replacement needs, and provides information on maintenance expenditures.

1.11.1 Files and Information

The user may add new records and modify or delete existing records belonging to the following files:

- o Locator Inventory File - Contains information on the characteristics and location of non-expendable property items.
- o Maintenance File - Contains information regarding maintenance which has been performed on the property concerned.
- o Receiving/Disposal Transaction File - Contains information on the receipt and disposal of property at a post.

1.11.2 Reports

Following are NEPA reports:

- o Inventory Listing by Agency
- o Items Disposed of Report
- o Items Due for Replacement Report
- o Composite Property Report
- o Inventory Listing by Location
- o Procurement Document Report
- o Maintenance Report
- o Summary Maintenance Report
- o Zero Quantity on Hand Report

Also, users may select the INQUIRY option from the main menu to formulate their own query statements accessing information from the above files and the NEPA Flexible Table of Codes (FLEXTAB).

1.12 REAL ESTATE MANAGEMENT SYSTEM (REMS)

The Real Estate Management System supports the Department of State's Office of Foreign Buildings (FBO) in Washington, D.C. and all overseas posts. The system is comprised of seven applications subsystems. The FBO Building Inventory System is based in Washington and collects summary information on all owned and leased properties worldwide. The FBO Project System supports Washington-level planning for all large and small capital projects worldwide. The system ranks alternatives under evaluation, monitors construction projects already underway, and tracks financial status. The FBO Property Accounting system consolidates the manual accounting procedures for work-in-progress on capital projects and captures data on Washington-incurred property costs. The Post Building Inventory System stores and reports information about all land and buildings used or managed at a post. The Work Order System tracks information on operating activities at a post for the general services officer and facilitates work order preparation. The Post Capital Project System supports management of building improvement and repair projects at posts. The Post Property Accounting System accumulates property costs and prepares reports by building and federal agency. This system interfaces with the Financial Management System (FMS). This application was developed using the proprietary software package Computer Aided Programming (CAP).

1.12.1 Files and Information

The user may add new records and modify or delete existing records belonging to the following groups of files:

- REMS Data Files - A series of files that contain information on the agency, building costs, property allocation and maintenance, leases, capital projects, organization codes, occupant history, payments, transactions, and work orders.

- Capital Projects Files - A series of files that contain information on post projects (contracts) and sub-projects. Project history data is collected, along with information on appropriations and expenditures.

- FBO Inventory Files - A series of files that contain information on property, building systems, leases, and government installations.

1.12.2 Reports

The following are REMS reports:

- REMS Building Inventory Reports
- REMS Work Order Reports
- Capital Projects Reports
- FBO Inventory Reports

1.13 RM - RESIDENTIAL MANAGEMENT

The Residential Management application, developed by the Department of State, provides a system for collecting and retrieving data on real property for the management of residential and nonresidential properties. Information stored for each property encompasses a physical description of the property, occupant information, leasing and landlord information, and maintenance and repair information.

1.13.1 Files and Information

The Residential Management application is designed to operate at posts where the Personnel Application is also operational. The application interrogates the American Employee and Pay Scale Files of the Personnel application for personnel information. The Residential Management application automatically identifies codes and validates data. The application requires some manager coordination with the Non-Expendable Property Application (NEPA) since both applications use FBO location numbers and unit codes which refer to the same real property.

The GSO officer may add, review, modify, or delete records belonging to the files listed below:

- Master File - Composed of the individual property records. Each record contains a physical description of the property, information on the occupant, leasing and landlord information, repair and maintenance dates, and information.
- Transaction File - Contains records which provide a log of summary occupant information for a specific property. When an occupant vacates a property, the system automatically creates a transaction record.
- Temporary Duty (TDY) File - Contains personnel information for TDY personnel, visitors, members of CODELS, and other individuals for whom records are not kept in the Post Personnel Application.

Users may select the USER-DEFINED INQUIRY utility from the Residential Management menu to create, store and run their own query statements to access information from the files listed on the next page.

1.13.2 Reports

Following are RM reports:

- Lease Expiration Report
- Landlord Listing Report
- Current and Upcoming Residential Vacancies Report
- Alphabetical Listing by Occupant Report
- Alphabetical List of Government-Owned, Long-Term, and Short-Term Leased Properties Report

1.14 SE - STATE ECONOMIC REPORTING AND ANALYSIS APPLICATION (SERA)

SERA was developed by the Department of State with the assistance of AID, CIA and FAS to provide an online economic data bank of international data for Foreign Service posts to use in performing economic research and reporting data for key economic indicators to the Department on a periodic basis. The data base is drawn from IMF's Direction of Trade, Balance of Payments, Government Finance Statistics, International Financial Statistics, IBRD's World Debt Tables, the OECD's DAC, and AID's economic assistance data.

Reporting posts will update key data series directly into their online data base and regularly report these updates to Washington, either through shipment of diskettes or electronically via telecommunications.

1.14.1 Files and Information

The user may add new records and modify or delete existing records belonging to the following files:

- Post estimates - Obtained from the regular national reporting sources, will be overridden by the official estimates when received from IMF, IBRD, OECD or AID.

- User Generated Files - Users may create their own local files, as desired, and utilize the proprietary statistical software package supplied with SERA to manipulate this data following the same procedures prescribed for regular SERA data series.

- Post/Master Data File - Contains records of economic statistics by month, quarter, and year. Data series are identified by specific codes associated with a specific country or countries. The user may add, delete, modify, or list information on the file.

- o Series Identifier File - Contains records of time series codes that are used in SERA master file manipulations and are accompanied by descriptions. Here, too, the user may add, delete, modify, or scan the file.

1.14.2 Reports

Reports are obtained through user-defined file inquiry functions using the WANG utility, INQUIRY.

1.15 VI - VISITOR'S SYSTEM

The Visitor application, developed by the Department of State, is designed to assist officers at post in planning and coordinating an official visit. The application keeps track of hotel reservations, arrivals, and departures as well as facilitates the scheduling of people for special events.

1.15.1 Files and Information

The user may add new records and modify or delete existing records belonging to the following files:

- o Individual File - Contains information unique to each person participating in the visit. Information in the file includes arrival and departure times and places, financial information, and hotel room number.
- o Visit File - Contains general information about the visit such as the list of contacts and obligation/appropriation numbers.
- o Schedule of Events File - Contains lists of events for each visit and the contacts responsible for each event.

1.15.2 Reports

Following are VI reports:

- o List of Arrivals and Departures
- o Control Officer List
- o Hotel List
- o Fiscal Report
- o Visit Roster

Several of the reports can be generated as word processing documents.

1.16 IA - INVITATION/CONTACTS

The Invitation/Contacts application provides a means for keeping track of the official contacts of the staff at post. The application is designed to assist in planning social events and compiling invitation lists. This appalication was developed using the proprietary software package Computer Aided Programming (CAP).

1.16.1 Files and Information

The user may add new records and modify or delete existing records belonging to the following files:

- Contact Files - Contains information related to official contacts of the post.
- Attributes File - Contains files which maintain the attribute descriptions which identify categories of contacts.
- Events/Invites File - Contains information about planned events and invitation lists.

1.16.2 Reports

Following are IA reports:

- List of Contacts
- List of Events
- List of Sponsors
- Gratuities List
- Report on Attendance of an Individual's Contacts
- List of Guests/Guests by Sponsorship Level
- List of Events

All reports can be generated as word processing documents.

SECTION 2

AGENCY FOR INTERNATIONAL DEVELOPMENT

2.1 MX - MISSION ACCOUNTING CONTROL SYSTEM (MACS)

The Mission Accounting and Control System (MACS) automates accounting and procedures for the Controller's offices for selected USAIDS. The system is an accounting and financial management system that covers three areas of mission accounting: Budget Allowance, Operating Expense, and Project Accounting. Accounting ledger and control record data are updated continuously as transactions are posted at the computer terminal. As transactions are entered, they are edited for propriety of data and impact on fund availability.

2.1.1 Files and Information

MACS includes three types of files: Master, Transaction, and Table Files. Users may add, modify, or (in specific cases) delete records from the following Master file records:

- Accrual Master File - Reflects the value of goods and services received but not paid for.
- Advanced Master File - Controls outstanding operating expense, project loan, and project grant unliquidated advances.
- Budget Allowance Master File - Controls the amount of operating expense funds and project funds which a mission can encumber.
- Commitment Reservation/Commitment Master File - Controls subsequent grant and loan commitment, reservation commitment, disbursement payment, and advance payment transactions.
- Direct Reimbursement/Authorization Master File - Controls the amount of funds which can be earmarked for loan projects for which the method of financing would be either direct reimbursement or a direct letter of commitment which would ultimately result in a mission payment.
- Disbursement Transaction Master File - Controls payments within budget allowance and obligations.
- Earmark Reservation/Earmark Master File - Controls subsequent grant and loan transactions set aside for the Earmark Reservation/Earmark Master File.

- Obligation Master File - Controls subsequent OE payment transactions (disbursements and advances) as well as the aggregate of project element budgets. Further implements transactions such as earmark commitments, and disbursements against the obligations for project loans and grants.

- Operating Expense Budget Master File - Controls the amount of funds which a mission can reserve or obligate for individual budget categories known as line numbers.

- Planned Expenditures Master File - Provides a source of planned expenditure data for planned versus actual expenditure reporting.

- Prepayment/Prepayment Amortization Transaction File - Used as a basis for calculating prepayment amortization as a part of net accrual calculations.

- Project Information Master File - Controls budget advances and loan authorizations against authorized project funding. Also controls encumbrances against project allotments.

- Reservation Master File - Controls subsequent obligation OE, and Project transactions.

2.1.2 Reports

The MACS system can generate over 50 reports, each allowing a number of data selection options.

MANAGEMENT REPORTS:

- Budget Allowance Ledger
- Object Class Distribution Ledger
- Obligation Liquidation Control Record/Obligation Payment Availability Status
- 1311 Analysis Report of Unliquidated Obligations
- Advance Control Ledger
- Subsidiary Advance Ledger
- Outstanding Advances Status
- Status of Budget Allowance
- Open Reservation Status
- Advice of Charge - Transmittal/Detail
- Prepayment Amortization Schedule (Batch Report)
- Summary of Budget Allowance with Budget Allowance Ledgers
- Disbursing Office Reconciliation
- Operating Expense Accrual Worksheet

- Mission Operating Expense Budget Status
- Open Reservation by EOCC
- Unliquidated Obligations by EOCC
- Status of Representation Allowance
- Status of Residential Expense
- Project Ledger
- Project Element Control Record
- Earmark Control Record
- Commitment Liquidation Control Record
- Summary Project Financial Report - by Project/by Element
- Comprehensive Pipeline Report - Project/Commitment Detail by Project/Commitment by BPC
- Open Earmark Reservations
- Project Accrual Worksheet
- Planned Versus Actual Expenditures
- 1311 Analysis Report of Unliquidated Commitments
- Project Funds Available for Obligation - Batch Report
- DRA Ledger
- Credit Transfer Schedule - Batch Report
- Summary of Budget Allowance Ledger Transactions and Reconciliation with Disbursing Officer's Accounts
- Flash Reports of Obligations Disbursements
- PFAR Cable Report
- Current Year Obligations - Project

OTHER REPORTS:

- In addition to Management Reports, MACS generates Transaction Registers and reports which print the content of MACS tables.

WANG REPORT AND INQUIRY UTILITIES:

- MACS provides access to the WANG Report and Inquiry Utilities through the utilities options on the MACS main menu. These utilities allow the user to create ad hoc reports using the MACS data files.

2.2 IC - INTERNATIONAL COMMUNICATIONS SYSTEM (ICS)

The International Communications System (ICS) provides intra-AID international communications for unclassified documents. ICS software for the Wang VS and OIS systems facilitates creation of document transmittal pages, and automatically generates appropriate JCL for interaction with AID's mainframe computer. RJE numbers act essentially as mailbox addresses; the sender's file is copied from the input RJE to a specified output RJE. If that RJE is inactive, JES2 holds the generated output on its queue for the destination RJE. ICS software preprocesses the files and JCL using menu picks and contains a translation table file to convert destination names to RJE addresses.

Version 2 of ICS relies on Wang Systems Networking software on the VS and OIS systems, and a Wang product, Information Distribution System (IDS), running in a CICS region on the mainframe. This version provides fully automated transmission, as well as virtually complete transparency of data communication, making possible the exchange of program and WP, as well as print/punch style files. ICS2 also includes an automatic interface to ICS1 if the destination of a file is only capable of 2780/3780 communications (ICS1).

2.2.1 Files and Information

ICS versions 1 and 2 rely upon only two files, which, though completely parallel in concept, vary in actual format. System documentation for each version fully describes formats and usage.

- Destination List - Provides a correlation between USAID and AID/w mnemonics and RJE numbers/system names. It enables the software to take the destination name and formulate the JCL or WSN system file transfer commands.
- File Transfer Queue - For ICS version 1, this provides a list of files eligible for transfer by the system administrator, and records the date/time of last requested transmission of a file. In ICS version 2, this file is maintained and read by the transmission software for automatic communications.

2.2.2 Reports

Listings of the current file transfer queue are available from both ICS1 and ICS2. The ICS2 report also includes errors detected in transmittal page content or file characteristics. Because of its reliance on WSN, the ICS2 report is supplemented by a file transfer log available from WSN.

2.2.3 Operational Environment

Wang VS or OIS with appropriate telecommunications processor.

ICS1: 2400 bps bysynch modem 2780/3780 communications software.

ICS2: Leased or dial-up line capable of supporting bit-oriented protocol (HDLC/SDLC) for SNA or WSN. WSN file transfer software for either leased or point-to-point communications environment.

2.3 NE - AID/W NONEXPENDABLE PROPERTY SYSTEM (NXP)

The purpose of the AID/W Nonexpendable Property System is to maintain an updated inventory of the AID Washington nonexpendable personal property. Using this inventory, M/SER/MO/RM can account for all AID/W nonexpendable personal property.

This system provides AID/W users with the ability to quickly add, modify, or retrieve inventory records and to produce periodic and/or ad hoc reports which reflect the status of AID/W personal property.

2.3.1 Files and Tables

- Locator
- Maintenance File
- Audit File
- Concrete Table File
- Flexible Table File

2.3.2 Applications

The Nonexpendable Property System consists of nine principle applications. These applications are run on the WANG VS 100 located in the Office of Information Resources Management. The system contains the following applications:

o Receiving	Enters initial property descriptions and location information for new acquisitions. This function establishes a record in the Locator file for the property.
o Issues/Turn-In/ Transfers	Provides on-line update of the information in Locator file. May be used to correct entries or to update the record when property is moved from one location to another.
o Disposal	Updates the property record in the Locator Inventory File. Indicates the disposal of a piece of property.
o Maintenance	Allows the user to add or modify records on the Maintenance file describing the type and cost of maintenance which has been performed on a piece of property. Also, annotates the Locator Inventory

File to indicate that maintenance on the property has occurred.

o Relocation	Updates property records in the Locator Inventory File using data from the Telxon Wand Reader. Produces Location and Discrepancy Reports. This function is used for office moves and other mass relocations.
o Reconciliation	Compares information entered on the Wand Reader during a physical inventory of AID's property to the records maintained in the Locator Inventory File of the NXP. Produces Missing Property, New Property, and Discrepancy Reports. Location data is updated as appropriate.
o Table Maintenance	Updates six tables used by the NXP to verify information entered in the system. This module allows the user to add, modify or delete entries in all of the system tables.
o Standard Reports	Allows the user to select and print any of the standard NXP reports.
o WANG Utilities	Gives the user access to WANG's Inquiry Language to display or extract general property information in the Locator Inventory File.

Applications are selected from the NXP Main Menu after logging onto the system from a WANG workstation by pressing the PFKEY associated with each application on the Menu screen. When access to the application has been obtained, a series of menus and screens will appear on the user's screen to prompt the user to perform the selected functions.

Access rights to the NXP are set according to the user's needs and security considerations. Access rights are set by the System's Manager.

2.3.3 Reports

- o Summary of nonexpendable items received
- o Inventory listing items owned by AID

- Inventory of items on loan
- Inventory of leased items
- Inventory listing by bureau - bureau
- Inventory listing by bureau - location
- Items due for replacement
- Table reports
- Change of location report
- Change of location discrepancy report
- Reconciliation missing items report
- Reconciliation new items report
- Reconciliation discrepancy report (or invalid physical inventory record listing)

2.4 AI - AUTOMATED INVENTORY MANAGEMENT SYSTEM (AIMS/AID/W)

The Automation Inventory Management System is used to track domestic AID automation equipment inventory. Periodic batch reports provide inventory details by bureau and office. Both hardware and software are tracked.

2.4.1 Files and Information

- Purchase Order File - Used to capture information from purchase orders cut.

- Inventory File - Used to capture inventory, cost, maintenance, and contracting data.

- Vendor File - Used to capture vendor name, location, and contract data.

- Washington Purchase Order Control File - Used to store Wang VS control language description of the Washington Inventory File.

- Washington Vendor Control File - Used to store Wang VS control language description of the Washington Vendor File.

- Washington Report Assignment File - Used to store report parameters for use by the report generation program.

- Washington Report Access File - Used to control user access to 12 standard reports.

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2.4.2 Reports

- Configuration Inventory and Cost Report
- Status Report
- Inventory by Vendor
- Procurement Cost
- Summary Equipment Report
- Office Configuration Report
- Vendor Contact Report
- Equipment Type Report
- Configuration Report
- Renewal Contract Report
- Equipment Age Report

Other Reports

The control files allow ad hoc report generation through Wang report utilities (Report and Inquiry).

2.5 AM - AUTOMATED INVENTORY MANAGEMENT SYSTEM OVERSEAS (AIMS/O)

The Automated Inventory Management System Overseas (AMIS/O) is used primarily to maintain automated equipment which is procured by the Agency and is shipped to the various overseas missions. As records are entered, three separate files are accessed interactively to both extract data from external tables and to ensure data validity through the use of stringent edit checks. In addition, an automated maintenance computing subsystem is linked to the AIMS/O to calculate monthly maintenance charges accrued during any given fiscal year.

2.5.1 Files and Information

AIMS/O includes two types of files: Master and Table Files. Depending upon the user's access level records to those files may be added, deleted nd modified via PF key options within the system.

- Inventory Master File - Reflects the current status of all automated equipment procured by AID for use at the overseas missions.

- Model Table File - Maintains an inventory of all the various types of automated equipment procured by the Agency for use at the overseas missions. This file is used in both an interactive and batch processing mode while updating the Master File.

- USAID Table File - maintains an entry of every current overseas mission that the Agency procures automation equipment for. This file is used in an interactive mode only while updating the Master File.

- Vendor Table File - maintains an entry of every vendor that the Agency procures automation equipment from. This file is also used in an interactive mode only while updating the Master File.

2.5.2 Reports

The AIMS/O can generate 9 standard reports, most of them have the flexibility to allow a number of data selection options.

Management Reports

- AIMS/O Inventory Report
- Inventory purchased from Vendor Wang
- Inventory purchased from all other Vendors
- Summary report of the different types of equipment
- Model Table File Report
- Items that need to be added to the Model Table File Report
- Annual Maintenance Report
- Obligation Funds Report (Includes shipping costs)
- Expenditure Report

Wang Report and Inquiry Utilities:

- AIMS/O provides access to the Wang Report and Inquiry Utilities through the utilities options on the AIMS/O main menu. These utilities allow the user to create ad hoc reports tailored to their immediate needs using AIMS/O data files.

2.6 RS - RESOURCE UTILIZATION SYSTEM (RUS)

The Resources Utilization System (RUS) provides for the reporting on the utilization and attribution of direct hire personnel and all IRM funded contractors who provide information management services to the Agency for International Development. The system provides basic management information to show where IRM resources are being expended, and depict the reporting of that time within reasonable accuracy.

2.6.1 Files and Information

RUS includes three types of files: Employee, Transaction, and Table Files.

- Employee Table File - Is the primary control file that contains information on all direct hire and contract employees, who have worked for IRM since the inception of the RUS.

- Client File - This file identifies all clients who are potential users of IRM services.

- Task Code File - This file identifies all task codes currently approved by the IRM Office Director for recording direct hire and contractor time.

- Division Code File - This file identifies the various operating divisions within IRM.

- Contractor Code File - This file identifies the various contractor companies that are approved to charge time in the RUS system.

- Calendar Table File - This file maintains the correct date variables that the RUS will allow for data entry or report production.

- User Table File - This file maintains the currently authorized users of the system.

- Weekly Activity Report Master File - This is the major transaction file for the system on which is recorded the resources expended information.

2.6.2 Reports

The RUS generate 9 reports, each allowing a number of data selection options.

- Listing of Invalid Client and Task Codes
- Summary by Client and Task
- Summary by Task and Client
- Summary by Employee/Client/Task
- Summary by Employee/Task/Client
- Summary by Division/Employee/Task/Client
- Summary by Division/Employee/Client/Task
- Summary by Division/Task/Client
- Summary by Division/Client/Task

Other Reports

In addition to the above, RUS can generate reports that print the contents of the various RUS tables.

Wang Report and Inquiry Utilities

RUS provides access to the Wang Report and Inquiry Utilities through the RUS main menu. These utilities allow the user to create ad hoc reports using the RUS data files.

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September 12, 1986

SECTION 3

U.S. DEPARTMENT OF AGRICULTURE FOREIGN AGRICULTURAL SERVICE

3.1 GE - GLOBAL ECONOMIC DATA EXCHANGE SYSTEM (GEDES)

GEDES, developed by the Department of Agriculture, is designed to permit the Foreign Agricultural Staff to create commodity reports and electronically transfer the reports to Washington. GEDES offers the user the ability to interrogate the satellite-remote-sensed data base maintained in Washington through the WANG computers at the embassy and in Washington. Responses are then sent back to the requesting post. After each report is reviewed in Washington, a feedback report is sent to the post explaining why the production, supply, and distribution estimates were accepted or rejected. The feedback report also updates the data base at post with the new information. GEDES is scheduled for conversion on the DOS A/ISO development system.

3.1.1 Files and Information

The user may add new records and modify or delete existing records belonging to the following files:

- Production, Supply, and Distribution (PSD) Master File - Contains statistics for each agricultural commodity for all countries reported on by the specific post for the most recent four years.

- Attached Report Schedule File - Contains a schedule of all reports the post is required to track and update.

3.1.2 Reports

Following are GEDES reports:

- Attache Report Schedule - A listing of all Attache Reports assigned to the post. The schedule shows the report titles, due dates, dates received at FAS/Washington, and unique report identifiers for each scheduled report.

- PSD Data Based Query/Commodity-Country Report - A report generated in response to an interactive query. The user specifies the commodity, the country, and the range of years of interest.

- Attache Commodity Report - A printout of the information that the attache has entered for each particular scheduled report.

3.2 AIMS - AGRICULTURAL INFORMATION MARKETING SERVICE (AIMS)

The Agricultural Information Marketing Service (AIMS) application was developed by the Foreign Agricultural Service of the Department of Agriculture to aid in the promotion of agricultural trade. Its main objective is to foster direct contact between U.S. suppliers and overseas buyers of agricultural commodities. The four major functions of AIMS processing include:

- o Buyer Processing - Allows the Agricultural Officer at post to create and maintain automated files of firms or other contacts interested in agricultural trade.
- o Attache Contacts and Events Processing (ACE) - Provides a capability to maintain a visitor log of individuals contacting the Agricultural Affairs Office.
- o U.S. Supplier Processing - Allows the user to extract reports or mailing labels of U.S. suppliers of agricultural commodities for screen and hard copy display.
- o Trade Lead Processing - Provides entry capability for foreign buyers desiring to directly contact U.S. suppliers who can furnish a particular product. Trade leads are transmitted to Washington for dissemination to interested agricultural suppliers.

3.2.1 Files and Information

The major files accessed by each of the applications include the following:

BUYER PROCESSING APPLICATION:

- o Foreign Contacts File - Contains basic information on the contacts or buyer companies.
- o Foreign Profile File - Contains extended information on importers especially concerning commodities in which a firm deals.
- o Foreign Commodity File - Contains commodity codes and the firm numbers for each of the firms that import those commodities.

ATTACHE CONTACTS AND EVENTS PROCESSING APPLICATION:

- Attache Contacts and Events File - Contains visitor or contact information for individuals contacting the Agricultural Affairs Office or Agricultural Trade Office.

U.S. SUPPLIER PROCESSING APPLICATION:

- Abridged Domestic Contacts File - Contains detailed company information on U.S. suppliers of agricultural commodities.
- Abridged Domestic Commodity File - Contains commodity codes for each of the importers and firm numbers of U.S. suppliers who deal in those commodities.

TRADE LEAD PROCESSING APPLICATION:

- Overseas Inquiry File - Contains trade leads which will be transmitted to Washington from the post for further processing.
- Transmission File - Contains trade leads in a format ready for transmission to Washington.

3.2.2 Reports

Following are AIMS reports:

BUYER PROCESSING APPLICATION:

- List of Foreign Buyers, by Commodity, Country, and/or Company Mailing Labels for Buyer Processing

ATTACHE CONTACTS AND EVENTS (ACE) PROCESSING APPLICATION:

- Contacts by Date or Specialized Interest Code

U.S. SUPPLIER PROCESSING APPLICATION:

- List of U.S. Suppliers, by Commodity, Country, and/or Company Mailing Labels for Supplier Processing

3.2.3 Other Features

Transmission of AIMS trade leads from post is supported by the Department of State's 3270 telecommunications network. Data is transmitted and is received without being solicited.

SECTION 4

U.S. DEPARTMENT OF COMMERCE

4.1 CO - AUTOMATED INFORMATION TRANSFER SYSTEM (AITS)

The Automated Information Transfer System (AITS) is an application developed by the Department of Commerce. It is designed to facilitate export trade by collecting data on foreign buyers and domestic sellers of American products and services. By automating the process of collecting, processing, selecting, and disseminating this data, a more timely and accessible source of trade information is expected to enlarge markets for U.S. goods overseas.

4.1.1 Files and Information

AITS, when fully operational internationally, will contain the following file:

- Master File - Contains information on domestic exporter and foreign import businesses. AITS produces selective lists of foreign importers matched with domestic firms with products to export in their area.

4.1.2 Reports

Following are AITS reports:

- Full AITS Record (one full page)
- Short Form AITS Record with Basic Company and Product Information
- Local Firms Report
- Special Trade Programs Report
- Table Reports

The system can call the WANG INQUIRY utility and store these inquiry formats, but not the subsets of the Master File.

4.1.3 Other Features

The system includes the 1300-entry Standard Industrial Code Table which facilitates the work of trade specialists and other users of AITS.

SECTION 5

U.S. INFORMATION AGENCY

5.1 DR - DISTRIBUTION AND RECORD SYSTEM (DRS)

The Distribution and Record System is designed to provide USIS officers overseas with an automated method of maintaining data concerning their audiences within a host country. The system provides an easy and comprehensive method of recording general biographical information about individuals and groups. It includes generalized extract capabilities and the potential to create ad hoc as well as standard reports. The Distribution and Record system also functions as a distribution list for publications.

5.1.1 Files and Information

The user may add new records and modify or delete existing records belonging to the following files:

- Biographic Master File - Contains pertinent data about selected individuals with whom USIS officers wish to maintain contact. It includes information such as name, address, interests, and publications received.
- Participation File - Contains information about contacts of USIS officers with members contained in the Biographic Master File. The Participation File also includes a record of these individuals' participation in and attendance at Agency-sponsored events.
- Program Event File - Contains detailed information on lectures, seminars, and exhibits which the posts sponsor or initiate that directly support Agency objectives.
- Dictionary File - Contains an English or foreign-language field name and field characteristics for every field in the Biographic Master and Program Event Files.

5.1.2 Reports

Following are DRS reports:

- Members by Location and Occupation
- Members by Interest/Specialty and Locations
- Members Exchanges by Location and Occupation
- Members by Occupation and Publications Received

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- Members by Location and Number of Publications Received
- Substantive Contact with Individual Participants
- Substantive Contact with Individual Participants by Occupation
- Substantive Contact with Individual Participants by Program Plan or Subject and Type of Contact
- Full Profile of Individual Member With or Without Participation Data
- Mailing Labels for All or Selected Members
- Mailing Envelopes for All or Selected Members
- Invitation List

In addition, an extensive range of ad hoc reports can be produced through the Extract procedures. The user interrogates a file using a simple English-like syntax. The results are displayed or printed as desired.

5.2 DS - FOREIGN STUDENT INFORMATION CLEARINGHOUSE

The Foreign Student Information Clearinghouse was developed by the National Liaison Committee on Foreign Student Admissions (NLC) with the cooperation and support from the Directorate for Educational and Cultural Affairs of the U.S. Information Agency. The clearinghouse serves as a valuable information resource for foreign students who are considering studying in the United States at either the undergraduate or graduate level. It is also intended to function as a professional guidance tool for advisers who assist foreign students in developing appropriate educational plans. Using specifications provided by the student, information is automatically sorted to identify those institutions which offer the program of study and characteristics that best meet the student's requirements.

5.2.1 Files and Information

All processing occurs against the DS Information Data Base. Data is provided by the institutions themselves, and updated on an annual basis. Approximately 1500 accredited colleges and universities participate in the clearinghouse. Students provide the counselor with requirements and preferences for higher education in the U.S. such as desired field of study, location, and housing. The student receives a list that includes as many as 10 colleges and universities that meet all or some of the specifications requested.

5.2.2 Reports

Following are DS reports:

- Student Report
- Dear Student Letter
- Transaction Analysis Report

SECTION 6

SUPPORT APPLICATIONS

6.1 HL - HARDWARE LOG

The Hardware Log application enables the System Manager to keep track of hardware problems at post. The Hardware Problem Log keeps track of elapsed downtime for each hardware problem logged. The log helps the manager follow progress the Customer Engineer is making in repairing hardware problems. Furthermore, the log may be used to evaluate equipment replacement based on downtime statistics.

The application also provides the System Manager with an inventory of spare parts kept at post. The System Manager may use either or both of these features.

6.1.1 Files and Information

The user may add new records and modify or delete existing records belonging to the following files:

- Hardware Problem Log - Contains information identifying the problem, down time, and date/time when the problem was reported and corrected.

- Spare Parts Inventory - Contains information on replacement, redundant, and spare parts.

6.1.2 Reports

Following are HL reports:

- Corrected Problems Report
- Outstanding Problems Report
- Spare Parts Report
- Defective Parts Report

6.2 ST - STATISTICS

The Statistics application provides the user with access to statistical software which can be used to process any data. A wide variety of statistics is provided, including the more commonly used charts, graphs and regressions. Currently, one commercial statistical package, MINITAB, is offered.

6.2.1 Files and Information

The user supplies the files either by entering the data at the workstation or by supplying files formatted according to the statistical package's requirements.

6.2.2 Reports

No management reports are produced. The statistical package can produce printed reports or display its results at the workstation. The results of a query can be printed.

6.3 TC - 3270 TELECOMMUNICATIONS

The 3270 Telecommunications system provides users of WANG VS computers that have a high speed telecommunications line the capability to transfer any file from a State Department WANG computer to another WANG computer or the IBM host computer in the Information Systems Office (ISO) of the Department of State. The system also provides the telecommunications interface for other applications. Currently, Consular Affairs is using the 3270 Telecommunications System to support the Automated Visa Lookout System; and the Department of Agriculture is using the system to support the Global Economic Data Exchange System in addition to the Trade Opportunity and Referral System Applications.

6.3.1 Files and Information

The user may add new records and modify or delete existing records belonging to the following files:

- TC Error Log - Contains a listing of all TC errors and corrective actions for each error and all files that have been sent or received.

- TC Message File - Contains text for all TC error messages.

- TC Configuration File - Contains site-dependent information.

6.3.2 Reports

The TC Error Log may be printed listing all errors that have occurred and files that have been sent or received.

6.4 WP - WORD PROCESSING

The Word Processing application provides access to the WANG Word Processing package. In the near future, the application will also include a set of programs which will archive documents to tape.

6.4.1 Files and Information

The archiving portion will keep an archive index.

6.4.2 Reports

The archiving section will include a report of documents archived or restored.

6.5 XX - CONCRETE TABLE FILE AND FLEXIBLE TABLE FILE (CONCTAB/LEXTAB)

The CONCTAB/FLEXTAB application provides a series of commonly used validation tables.

6.5.1 Files and Information

The user may add new records and modify or delete existing records belonging to the following files:

- Concrete Table File (CONCTAB) - This file contains those tables that do not vary from post to post, such as State Abbreviations and Visa Refusal Codes. The Department of State sets the tables.
- Flexible Table File (FLEXTAB) - This file contains those tables that vary from post to post. Programs are provided to allow users to make additions, deletions, and modifications to this file.

6.5.2 Reports

A program is provided that will list the contents of any or all tables. This report may be displayed at the workstation or printed.

6.5.3 Other Features

In FLEXTAB, a table entry is provided that identifies the local installation by name and organization code. Using this table entry, a program can produce a report that uniquely identifies the place where it is generated.

6.6 YY - CONTROLLED USER ENVIRONMENT (CUE)

The Controlled User Environment (CUE) application establishes a standardized environment for the execution of end-user applications. These applications are typically the standard applications (e.g., those described in this attachment) and, optionally, any of the locally developed applications which have been specifically developed for implementation under the CUE environment. Thus, CUE provides the envelope within which standard applications are distributed to standard production systems (i.e., Foreign Service posts/missions), provides a standardized approach for the implementation of locally developed applications, and provides the post/mission System Manager a variety of end-user administration and security features.

Following is a general description of CUE capabilities:

- o Menu Building - Used to build menus unique to each user. This includes the logon menu and subordinate menus which permit the end-user to select applications for execution. This mechanism also provides exit/re-entry management to permit the end-user to access systems software (e.g., the word processing application, EZQUERY, etc.).
- o Catalog Functions - Used to maintain a catalog of disk files and their system location, so programs do not have to have explicit file references in them. This mechanism permits the execution of identical applications against two or more data sets.
- o Printer Management - Used to route a printout to the appropriate printer without the user having to identify the printer.
- o Release Control - Provides a mechanism for releasing and installing new software at the post/mission.

6.6.1 Files and Information

Following are CUE files:

- o Transaction File - Contains all transactions available through CUE and Menu Templates used in building user menus.
- o Operator Table - Contains a list of applications to which a user has access.

- o Catalog File - Contains a list of all files used and where they are located.
- o Printer Control File - Tells the user programs where the printout generated at each workstation is to be sent.
- o Release Control and Application Control Files - Tells CUE which parts of each application are to be sent to each post.

6.6.2 Reports

No management reports are generated. However, reports that describe the contents of each of the files can be generated. When software is sent to a post/mission, a special set of reports telling the System Manager what the release contains is generated.

6.6.3 Other Features

CUE provides a small measure of additional security above that offered by WANG file classes and logon passwords. CUE is designed so the user will never see the WANG Command Processor screen nor have to tell a program the name and location of the files it is to use.

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SECTION 7

DEPARTMENT OF STATE SPECIAL APPLICATIONS

7.1 FS - FINANCIAL MANAGEMENT SYSTEM (FMS)

The Regional Administrative Management Centers (RAMCs) currently maintain all accounting and payroll data for the posts they service. On a quarterly or monthly basis, The RAMCs send this accounting data in various forms to M/COMP interfacing systems in Washington, D.C., and other agencies serviced by the Department of State. Payroll and accounting systems vary at each RAMC and the Washington Finance Center.

FMS will replace the current central accounting system (FINMAN) and the accrual reporting system used in Washington. FMS will interface with the existing payroll systems at the RAMCs and the central budget systems. In addition, some existing functions (e.g., obligation data entry) which are now performed at certain posts will be consolidated or replaced by FMS. These include some automated financial systems developed independently at individual posts. The following is a general list of FMS functions:

a. Disbursing - Includes:

1. Gather and edit disbursing data
2. Produce payments
3. Control Check Stock
4. Control and report U.S. Disbursing Officer accountability
5. Reconcile bank accounts
6. Maintain disbursing records
7. Maintain interfaces with existing systems

b. Accounting - Includes:

1. Obligation control
2. Allotment accounting
3. Vouchering/accounts payable
4. Accounts receivable
5. General ledger
6. Accounting interfaces

c. Budgeting - Includes:

1. Reimbursements
2. Budget execution
3. Financial planning
4. Budget preparation

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c. Foreign Service Institute Management and Cost Accounting - Includes:

1. Student enrollment
2. Financial Planning
3. Cost Accounting
4. Tuition determination and reimbursements

FMS is implemented using the VS TOTAL DBMS. One partition is provided for a total of 41 files. Within the data base, one standalone area with 3 set relationships, and a networked area with 18 set relationships.

7.2 CLASSIFIED INFORMATION HANDLING SYSTEM (CIHS)

CIHS provides a classified capability for overseas posts to transmit and receive word processing documents. The functions provided by CIHS are:

a. Transmit a telegram to a another site

b. Retrieve a telegram that was received from another site

c. Retrieve local documents stored by CIHS

d. Retrieve waiting messages that have been queued for specific user identifiers

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SECTION J

ATTACHMENT XVII

WANG USER SUBROUTINES

This attachment provides a brief description of the function(s) of the Wang VS User Subroutines (USERSUBS).

BELL	Sounds the workstation alarm for a specified amount of time.
BITPACK	Converts a binary string into its ASCII character equivalent.
BITUNPK	Cancels execution of the calling program and displays a message on the workstation. The message consists of a message ID, a message issuer, and a message.
CEXIT	Overrides system cancel processing. On abnormal program termination, PF1 can can be depressed to enter debug processing, PF16 to cancel processing, or the HELP key to access the Modified Command Processor. CEXIT allows the programmer to restrict debug processing, to associate PF16 with alternate processing, and to disable operation of the HELP key.
CHKPARM	Performs table checking on one or more GETPARM keyword fields entered by a user or a procedure in a previous GETPARM request. CHECKPARM can be used for any type of field checking, but it is primarily intended for GETPARM Limited Alphanumeric and Alphanumeric keyword field types.
COMPRESS	Converts a character string to compressed format. Compressed format can reduce storage for records with repeated characters.
DATE	Performs the following date functons: (1) converts the current system date and time to a formatted string, (2) converts dates between Gregorian and Julian formats. (3) performs calculations with dates, and (4) determines the day of the week that corresponds to a given 20th century date.
DAY	Computes the day of the week that corresponds to a specified 20th century date.
DISMOUNT	Initiates a dismount operation of a mounted disk or tape volume.

EXPAND	Converts a character string from compressed format to external format. EXPAND removes the special characters used to indicate repeated characters and produces text in noncompressed form.
EXTRACT	Provides information about the system and the program user.
FIND	Obtains one or more file, library, or volume names from complete or partial file, library, and volume names supplied by your program. Also indicates whether a specified file resides in a specified library and volume.
FLOPIO	Performs a variety of I/O operations on a nonlabeled (NL) diskette.
GETPARM	Enables the programmer to generate parameter requests in a higher level language program.
HEXPACK	Converts a string of hexadecimal digits to its ASCII character equivalent.
HEXUNPK	Converts a string of ASCII characters into hexadecimal digits.
LINK	Allows a program to link to another program or procedure and to specify a cancel exit for the link. The calling program can also specify any arguments that are needed to execute the linked program or procedure.
LOADCODE	Allows a program to load specified microcode into a device.
LOGOFF	Terminates the calling program and logs it off the system.
MESSAGE	Allows communication of messages between workstations.
MOUNT	Requests the operator to mount a volume (disk or tape).
PAUSE	Causes a program to pause for a specified amount of time.
PRINT	Sends a print file to the print queue.
PROTECT	Changes the file security attributes of a file or library.

PUTPARM	Performs the following primary functions: (1) creates a parameter list (parameter reference block) to satisfy a subsequently generated parameter request, (2) retrieves a previously created parameter reference block, (3) deletes existing parameter reference blocks.
READFDR	Provides information about a specified file, including control blocks file characteristics.
READVTOC	Provides information from the Volume Table of Contents (VTOC).
RENAME	Allows the program to rename a file or library, with the options of bypassing expiration date checking and limiting access rights for a program with special privileges
RETURN	Allows the program to return through several levels or subroutine calls.
SCRATCH	Provides the ability to scratch a file or library, with the options of bypassing expiration date checking and limiting access rights for a program with special privileges.
SCREEN	Prints the screen currently displayed on the workstation. This only can print for the workstation from which it is run.
SEARCH	Performs a binary search on a specified tale for a particular element and indicates whether the element exists in the table.
SET	Sets any of the allowable defaults that are available trhough the Command Processor SET Usage Constants function and the Procedure language SET command.
SORT	Sorts a character array on a specified field, in either ascending or descending order. Output from SORT can be either the sorted array or a locator-type array. (The elements in a locator-type array indicate the positions of the sorted elements in the character array).
STRING	Provides the following string manipulation functions: (1) moves a string to another variable and pads it with a specified character, (2) moves a portion of a string to another variable, (3) centers a string, (4) left-or

right-justifies a string, (5) reverses the order of characters in a string and (6) translates the string according to a standard or user-specified translation table.

SUBMIT	Submits a background job to be run or held for later processing.
UNITRES	Allows the program to reserve or release a device or peripheral processor on the system.
UPDATFDR	Allows the program to update the VTOC entry of a file or library.
WSXIO	Perform I/O operations at the workstation and returns values associated with those operations.

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ATTACHMENT XVIII

DEPARTMENT OF STATE READING ROOM

1. CONTENTS

The Reading Room contains source listings and documentation for each of the mandatory initial conversion applications, as well as representative code for each system type as shown in Attachment XIII.

2. LOCATION AND AVAILABILITY

The Reading Room is located at Room 215, State Annex 6, 1701 N. Fort Myer Drive, Arlington, Virginia, and will be available beginning with the release of the RFP by reservation only.

3. ARRANGEMENTS

Only one Offeror's organization will be allowed into the Reading Room at a time. One 8-hour (all day) period will be scheduled per day, Monday - Friday, on a first-come, first served basis. If a second reservation is requested, the Offeror is subject to being "bumped" by another Offeror who is making a "first-time" reservation. Because of space limitations, Offerors will be limited to reserving for five (5) personnel. For reservations, please contact Mike Pasek, Department of State, (202) 647-5132.

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SECTION J

ATTACHMENT XIX

PROPRIETARY SOFTWARE

NAME: Computer Aided Programming (CAP)

MANUFACTURER: Netron, Inc., Ontario, Canada

EQUIPMENT TYPES: VS Series

DESCRIPTION: CAP is an interactive COBOL program development aid that provides a standardized program structure and standard routines for file maintenance, screen handling, reporting, and security. Program development is accomplished using a skeleton source module where the user enters COBOL source and references various CAP provided routines via call and perform statements. The user code along with the package supplied code is integrated into a complete program using system standard compile and link functions.

NAME: MINITAB

MANUFACTURER: Minitab, Inc., University Park, Pa.

EQUIPMENT TYPES: VS Series

DESCRIPTION: MINITAB is a general purpose statistical computing system providing a wide variety of statistical, mathematic, editing, data analysis, and matrix operations. The system operates in either interactive or batch mode, and provides a variety of options for data input and output.

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NAME: LOTUS 1-2-3

MANUFACTURER: LOTUS Development Corporation, Cambridge, MA

EQUIPMENT TYPES: WANG PC

DESCRIPTION: LOTUS 1-2-3 is an automated spreadsheet application providing comprehensive text, arithmetic and logical functions to end-users. Included are file management, graph and printing utilities. When networked with the WANG VS series equipment, LOTUS 1-2-3 files developed on WANG PC can be transferred to and from a VS system.

NAME: VS TOTAL

MANUFACTURER: The OEM is Cincom Systems, Inc., Cincinnati, Ohio. VS TOTAL is adapted to VS by Wang, who also markets and distributes the product.

EQUIPMENT TYPES: VS Series

DESCRIPTION: VS TOTAL uses a structured network design to manage storage and retrieval of information in a data base residing on random access storage devices. Some of the features of VS TOTAL are:

- Provides expansion capabilities limited to available random access storage devices
- Operates in a multi-user/multi-tasking environment
- Supports interactive or batch processing modes
- Supports FORTRAN, PL1, COBOL, RPG-II, and assembly

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NAME: dBASE II and dBASE III

MANUFACTURER: Ashton-Tate, Culver City, Ca

EQUIPMENT TYPES: Personal Computers

DESCRIPTION: dBASE II and dBASE III are personal computer based application development systems organized around a relational DBMS. dBASE III, a significantly improved version of dBASE II, provides integral software to permit the migration of dBASE II applications and data bases to dBASE III.

NAME: Alliance Visual Memory

MANUFACTURER: Wang Laboratories, Inc.

EQUIPMENT TYPES: Alliance Systems

DESCRIPTION: Alliance Visual Memory is an interactive data management tool. It enables the user to create, organize, edit, manipulate, print, and retrieve records.

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SECTION J

ATTACHMENT XX

LIVE TEST DEMONSTRATION SPECIFICATIONS AND PHYSICAL PACKAGE

1. SCOPE

The Department of State will schedule Live Test Demonstrations (LTDs) with the offerors in the Competitive Range. The LTD will consist of two types of demonstrations:

- Functional Demonstrations

- Performance Demonstrations

The functional demonstration shall verify that the equipment and software proposed in the Offerors proposal meet the mandatory requirements (Functions / Features / Capabilities) and mandatory optional features of this Solicitation. The functional demonstration will allow the Government to observe and evaluate the Offerors ability to demonstrate the hardware and software functions, features and capabilities described within the technical proposal. The functional demonstration shall be conducted by Offeror personnel with Government personnel provided as timers, evaluators and validators.

The performance demonstration is the timed portion of the LTD. The performance demonstration shall verify that the software and hardware configurations specified within the Offerors proposal meet the performance requirements of this Solicitation. The Offeror will be required to demonstrate the performance of at least three of the thirty system configurations contained within the Offerors proposal. The configurations to be demonstrated will be chosen by the Government.

The Offeror will process representative workload scenarios (supplied by the Government) utilizing proposed software and hardware configurations. The Offeror will be required to use a remote terminal emulator (RTE) to process the Government supplied workload scenarios.

The purpose of the performance demonstration is to require the Offeror to process the estimated workload required of each configuration within a predetermined period of time. The performance demonstration will be observed and evaluated by the Government, and all performance and timing requirements as stated in this Solicitation must be met or exceeded.

2. PRE-LTD SCHEDULE OF EVENTS

A series of events will take place prior to the LTD which will require the involvement of both the Government and those Vendors which request the LTD materials. The following paragraphs will discuss the schedule of events to take place prior to the LTD. The schedule is presented in Figure XX-1.

2.1 Procedure Manual and Physical Tapes

The Live Test Demonstration will be conducted in accordance with the guidelines described in the LTD Procedure Manual. The LTD Procedure Manual and Physical Tapes will be available 2 weeks after the release of the RFP. A purchase fee of one-hundred (100) dollars is required to obtain a copy of the LTD Procedure Manual and Physical Tapes. Offerors will make the check payable to the Treasurer of the United States and address their request within two (2) weeks of receipt of this RFP to the address contained in SF33, block 6.

The LTD Procedure Manual will provide the following:

A. Guidelines for the Conduct of the LTD

- Ground Rules
- Government and Vendor Responsibilities

B. Performance Demonstration Guidelines

- Resource Requirements
- Hardware and Software Specifications
- Personnel Requirements
- LTD Physical Tape Implementation Guidelines
- Program and File Documentation

C. Functional Demonstration Guidelines

- Resource Requirements
- Hardware and Software Specifications
- Personnel Requirements
- Functional Demonstration Scripts

D. Evaluation and Validation Guidelines

- Government and Vendor Responsibilities
- Pre-LTD Evaluation and Validation Procedures
- Evaluation and Validation Procedures During LTD
- Post-LTD Evaluation and Validation Procedures

E. LTD Agenda and Schedule

The physical LTD package will be comprised of three (3) reels of magnetic tape and the related documentation required by the Vendor to implement the material contained on the magnetic tapes. One reel of magnetic tape will contain LTD implementation, execution, pass-through and post-execution programs. The second reel of magnetic tape will contain the data used by the implementation programs. the third tape will contain the files needed to perform the functional demonstration.

Reel number one will contain the following programs:

1. IMPLEMENTATION PROGRAMS

   - o SCENARIO GENERATION

     - o GENERATES SCENARIO DATA FOR:

       WORD PROCESSING
       FAIS
       INTERACTIVE PROGRAMS
       DATABASE APPLICATION
       PROGRAM DEVELOPMENT

   - o MASTER FILE GENERATION

     - o GENERATES DATA FILES FOR:

       WORD PROCESSING
       FAIS
       INTERACTIVE PROCESSING
       DATA BASE APPLICATION
       PROGRAM DEVELOPMENT
       PASS-THROUGH PROCESSING

2. EXECUTION PROGRAMS

   - o INTERACTIVE:

     IMMIGRANT VISA APPLICANT CONTROL SYSTEM
     NON-EXPENDABLE PROPERTY APPLICATION

3. PASS-THROUGH PROGRAMS

4. POST-EXECUTION PROGRAMS

   - o EVALUATION PROGRAM(S)
   - o VALIDATION PROGRAM(S)

Reel Number Two will contain the base data files required for generating the necessary input files for word processing, FAIS, interactive processing, database application, pass-through processing and program development.

Reel Number Three will contain the files necessary to perform the functional demonstration.

2.2 Vendor LTD Briefing

A Vendor LTD briefing will be held six (6) weeks after release of the RFP. Vendors must submit all questions in writing to the address in SF33, block 6, one (1) week prior to the LTD briefing. Details on the LTD briefing will be provided with the release of the LTD materials, i.e., time, date and location.

2.3 Vendor Provides Functional Scripts

Descriptions of the Functional Demonstration tests are provided in the LTD Procedure Manual. The functional test descriptions provide the following:

- o Test Objectives
- o Test Scenario/Scripts
- o Test Measurements
- o Test Evaluation Criteria

The functional demonstration scripts provided by the Government are a generalized event-by-event description of each functional test. The Vendor must review the scenario scripts provided for each test, and submit in writing any script deviations which may be required by the Vendor to satisfy the objectives of each functional test. The data requirements specified in the provided scenario scripts must be incorporated into the event-by-event process described in the Vendors procedures. The number of events specified by the Vendor for an individual functional test may differ from the number of events indicated in the script provided by the Government.

The scripts provided by the Government are designed to provide the data requirements of each functional test, and assist the Vendor in the task of combining the specified data requirements and Vendor unique processing requirements into a detailed description of the processes and procedures the Vendor must complete to successfully perform the functional tests. The procedures (scripts) the Vendor must provide for each functional test with Vendor unique processing requirements (deviations) must be in the same format as the scripts provided by the Government. The Vendor unique processing requirements must be incorporated. The Vendor deviations must be clearly documented in the Vendor provided LTD procedures. The Vendor LTD procedures must be submitted to the Government with the proposal submission.

2.4 Vendors Notified of LTD Selection

The Department of State will notify the Vendors in the Competitive Range. Those Vendors in the Competitive Range will be assigned an LTD date. The Vendors in the Competitive Range will also be notified which system configurations (C-System/Year) will be tested during the LTD.

2.5 Government Provides Live LTD Base Data Files

The Government will provide the Base Data Files for the LTD. Test base data files are provided as part of the physical tapes. The base data files are used by the master file generation programs (also provided on physical tapes) to generate the data required for each system configuration tested. The base data files will be provided to the Vendor 24 hours prior to the LTD.

2.6 Conduct of the LTD

The LTD will require at least six days to complete, beginning at 8 a.m. and ending between 5 p.m. and 6:30 p.m. depending on the day's activities. The first day will consist of a half-day briefing and certification of the hardware and software followed by a half-day of functional demonstrations. The second and third day will consist of continued functional demonstration activities. The fourth, fifth and sixth day will consist of the performance demonstration activities as required. A detailed LTD agenda is presented in the LTD Procedure Manual.

2.7 Vendor Notified of Pass/Fail LTD Evaluation Results

The LTD will be evaluated as Pass/Fail. The Vendor will be notified of the LTD evaluation results (Pass/Fail) within 7 calendar days after the completion of the LTD. The Government will notify the Vendor of a negative evaluation (Failed) during the LTD whenever possible.

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LTD EVENTS SCHEDULE

(Dates are approximate)

		WEEKS AFTER RFP RELEASE
1.	Government issues LTD Procedure Manual and LTD Physical Tapes.	2
2.	Vendor LTD Briefing	6
3.	Vendor provides LTD Functional and Performance Demonstration Procedures.	Proposal Due Date
4.	Government determines the configurations to be tested and Notifies Vendors selected to perform the LTD.	12 Weeks After Proposal
5.	Government provides live LTD Base Data Files	24 Hours Prior to LTD
6.	Conduct of the LTD.	-
7.	Vendor notified of Pass/Fail LTD evaluation results.	One week After LTD

Figure XX-1.

SECTION K

REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS

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K.1 52.203-2 CERTIFICATE OF INDEPENDENT PRICE DETERMINATION (APR 1985)

a. The offeror certifies that--

1. The prices in this offer have been arrived at independently, without, for the purpose of restricting competition, any consultation, communication, or agreement with any other offeror or competitor relating to (i) those prices, (ii) the intention to submit an offer, or (iii) the methods or factors used to calculate the prices offered:

2. The prices in this offer have not been and will not be knowingly disclosed by the offeror, directly or indirectly, to any other offeror or competitor before bid opening (in the case of a sealed bid solicitation) or contract award (in the case of a negotiated solicitation) unless otherwise required by law; and

3. No attempt has been made or will be made by the offeror to induce any other concern to submit or not to submit an offer for the purpose of restricting competition.

b. Each signature on the offer is considered to be a certification by the signatory that the signatory--

1. Is the person in the offeror's organization responsible for determining the prices being offered in this bid or proposal, and that the signatory has not participated and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) above; or

2. i. Has been authorized in writing, to act as agent for the following principals in certifying that those principals have not participated, and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) above____________________________________ [insert full name of person(s) in the offeror's organization responsible for determining the prices offered in this bid or proposal, and the title of his or her position in the offeror's organization].

   ii. As an authorized agent, does certify that the principals named in subdivision (b)(2)(i) above have not participated, and will not participate, in any action contrary to subparagraphs (a)(1) through (a)(3) above; and

iii. as an agent, has not personally participated, and will not participate, in any action contrary to subparagraphs (a)(1) through (a)(3) above.

c. If the offeror deletes or modifies subparagraph (a)(2) above, the offeror must furnish with its offer a signed statement setting forth in detail the circumstances of the disclosure.

K.2 52.203-4 CONTINGENT FEE REPRESENTATION AND AGREEMENT (APR 1984)

a. Representation. The offeror represents that, except for full-time bona fide employees working solely for the offeror, the offeror--

Note: The offeror must check the appropriate boxes. For interpretation of the representation, including the term "bona fide employee," see Subpart 3.4 of the Federal Acquisition Regulation.

1. /__/ has, /__/ has not employed or retained any person or company to solicit or obtain this contract; and

2. /__/ has, /__/ has not paid or agreed to pay to any person or company employed or retained to solicit or obtain this contract any commission, percentage, brokerage, or other fee contingent upon or resulting from the award of this contract.

b. Agreement. The offeror agrees to provide information relating to the above Representation as requested by the Contracting Officer and, when subparagraph (a)(1) or (a)(2) is answered affirmatively, to promptly submit to the Contracting Officer--

1. A completed Standard Form 119, Statement of Contingent or Other Fees, (SF 119); or

2. A signed statement indicating that the SF 119 was previously submitted to the same contracting office, including the date and applicable solicitation or contract number, and representing that the prior SF 119 applies to this offer or quotation.

K.3 52.215-11 AUTHORIZED NEGOTIATORS (APR 1984)

The offeror or quoter represents that the following persons are authorized to negotiate on its behalf with the Government in connection with this request for proposals or quotations: [list names, titles, and telephone numbers of the authorized negotiators].

____

____

K.4 52.214-8 PARENT COMPANY AND IDENTIFYING DATA (APR 1984)

a. A "parent" company, for the purpose of this provision, is one that owns or controls the activities and basic business policies of the bidder. To own the bidding company means that the parent company must own more than 50 percent of the voting rights in that company. A company may control a bidder as a parent even though not meeting the requirement for such ownership if the parent company is able to formulate, determine, or veto basic policy decisions of the offeror through the use of dominant minority voting rights, use of proxy voting, or otherwise.

b. The bidder /__/ is, /__/ is not [check applicable box] owned or controlled by a parent company.

c. If the bidder checked "is" in paragraph (b) above, it shall provide the following information:

Name and Main Office Address of Parent Company (Include Parent Company's Employer's Zip Code) Identification Number

d. If the bidder checked "is not" in paragraph (b) above, it shall insert its own Employer's Identification Number on the following line ______________________.

K.5 52.215-6 TYPE OF BUSINESS ORGANIZATION (APR 1984)

The offeror or quoter, by checking the applicable box, represents that it operates as /__/ a corporation incorporated under the laws of the State of ______________________, /__/ an individual, /__/ a partnership, /__/ a nonprofit organization, or /__/ a joint venture.

K.6 52.215-20 PLACE OF PERFORMANCE (APR 1984)

a. The offeror or quoter, in the performance of any contract resulting from this solicitation, /__/ intends, /__/ does not intend (check applicable block) to use one or more plants or facilities located at a different address from the address of the offeror or quoter as indicated in this proposal or quotation.

b. If the offeror or quoter checks "intends" in paragraph (a) above, it shall insert in the spaces provided below the required information:

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Place of Performance (Street Address, City, County, State, Zip Code)	Name and Address of Owner and Operator of the Plant or Facility if Other than Offeror or Quoter

K.7 52.219-1 SMALL BUSINESS CONCERN REPRESENTATION (APR 1986)

The offeror represents and certifies as part of its offer that it /__/ is, /__/ is not a small business concern and that /__/ all, /__/ not all end items to be furnished will be manufactured or produced by a small business concern in the United States, its possessions, Puerto Rico, or Trust Territory of the Pacific Islands. "Small business concern," as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the size standards in this solicitation.

K.8 52.219-2 SMALL DISADVANTAGED BUSINESS CONCERN REPRESENTATION (APR 1984)

a. Representation. The offeror represents that it /__/ is, /__/ is not a small disadvantaged business concern.

b. Definitions.

"Asian-Indian American," as used in this provision, means a United States citizen whose origins are in India, Pakistan, or Bangladesh.

"Asian-Pacific American," as used in this provision, means a United States citizen whose origins are in Japan, China, the Philippines, Vietnam, Korea, Samoa, Guam, the U.S. Trust Territory of the Pacific Islands, the Northern Mariana Islands, Laos, Cambodia, or Taiwan.

"Native Americans," as used in this provision, means American Indians, Eskimos, Aleuts, and native Hawaiians.

"Small business concern," as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria and size standards in 13 CFR 121.

"Small disadvantaged business concern," as used in this provision, means a small business concern that (1) is at least 51 percent owned by one or more individuals who are both socially and economically disadvantaged, or a publicly owned business having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals and (2) has its management and daily business controlled by one or more such individuals.

c. Qualified groups. The offeror shall presume that socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans, Asian-Indian Americans, and other individuals found to be qualified by the SBA under 13 CFR 124.1.

K.9 52.219-3 WOMEN-OWNED SMALL BUSINESS REPRESENTATION (APR 1984)

a. Representation. The offeror represents that it /__/ is, /__/ is not a women-owned small business concern.

b. Definitions.

"Small business concern," as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria and size standards in 13 CFR 121.

"Women-owned," as used in this provision, means a small business that is at least 51 percent owned by a woman or women who are U.S. citizens and who also control and operate the business.

K.10 52.222-19 WALSH-HEALEY PUBLIC CONTRACTS ACT REPRESENTATION (APR 1984)

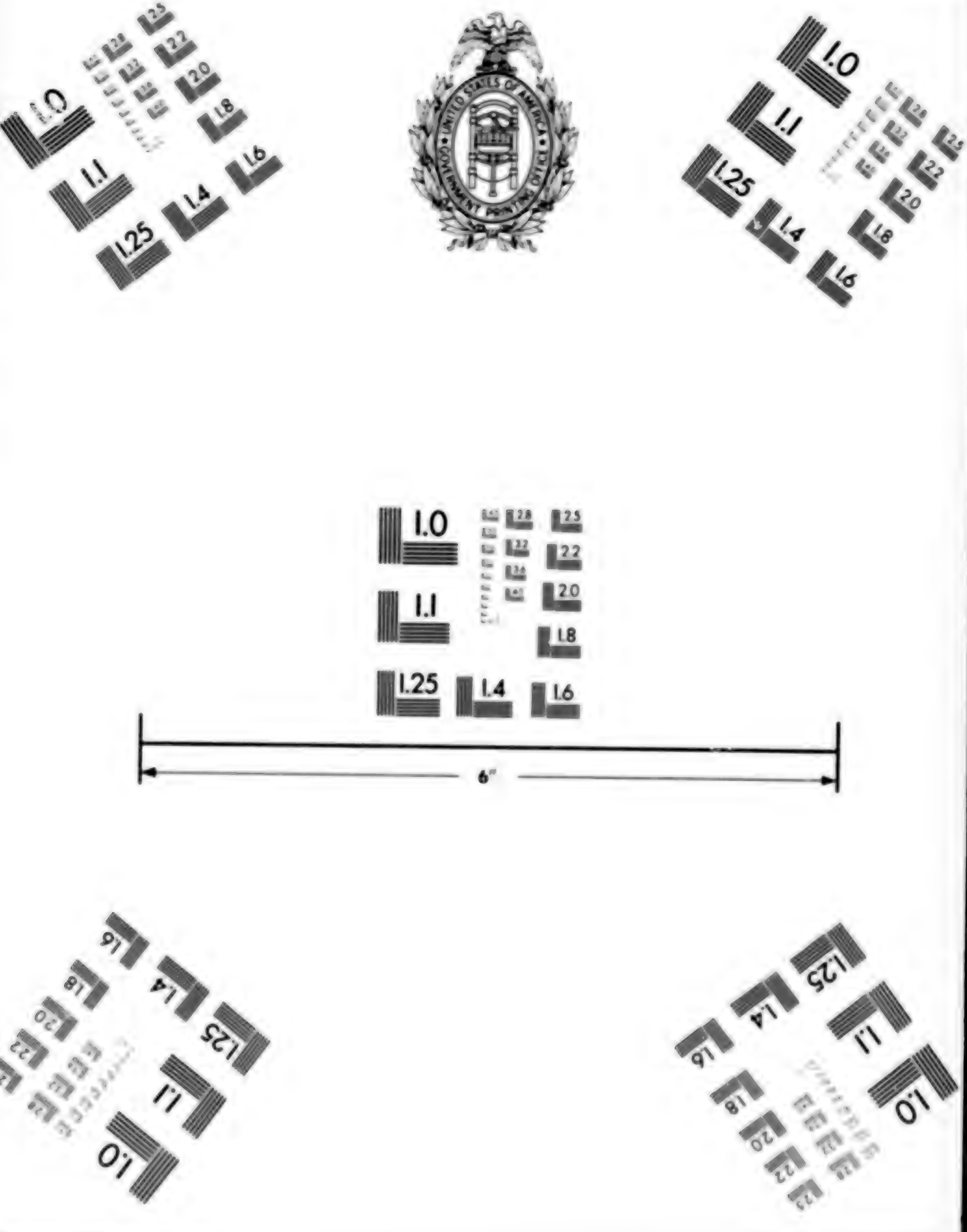
The offeror represents as a part of this offer that the offeror is /__/ or is not /__/ a regular dealer in, or is /__/ or is not /__/ a manufacturer of, the supplies offered.

K.11 52.222-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (APR 1984)

The offeror represents that--

a. It ___has, ____has not participated in a previous contract or subcontract subject either to the Equal Opportunity clause of this solicitation, the clause originally contained in Section 310 of Executive Order No. 10925, or the clause contained in Section 201 of Executive Order No. 11114;

C/fL


UNITED STATES OF AMERICA
GOVERNMENT PRINTING OFFICE
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1.8
2.0
2.2
2.5
6"

b. It_____has, _______has not, filed all required compliance reports; and

c. Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

K.12 52.222-25 AFFIRMATIVE ACTION COMPLIANCE (APR 1984)

The offeror represents that (a) it /__/ has developed and has on file, /__/ has not developed and does not have on file, at each establishment, affirmative action programs required by the rules and regulations of the Secretary of Labor (41 CFR 60-1 and 60-2), or (b) it /__/ has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

K.13 52.223-1 CLEAN AIR AND WATER CERTIFICATION (APR 1984)

The Offeror certifies that--

a. Any facility to be used in the performance of this proposed contract is /__/, is not /__/ listed on the Environmental Protection Agency List of Violating Facilities;

b. The Offeror will immediately notify the Contracting Officer, before award, of the receipt of any communication from the Administrator, or a designee, of the Environmental Protection Agency, indicating that any facility that the Offer or proposes to use for the performance of the contract is under consideration to be listed on the EPA List of Violating Facilities; and

c. The Offeror will include a certification substantially the same as this certification, including this paragraph (c), in every nonexempt subcontract.

K.14 52.230-2 COST ACCOUNTING STANDARDS NOTICES AND CERTIFICATION (NONDEFENSE) (APR 1984)

Note: This notice does not aply to small businesses or foreign governments.

a. Any contract over $100,000 resulting from this solicitation shall be subject to Cost Accounting Standards (CAS) if it is awarded to a business unit that is currently performing a national defense CAS-covered contract or subcontract, except when--

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1. The award is based on adequate price competition;

2. The price is set by law or regulation;

3. The price is based on established catalog or market prices of commercial items sold in substantial quantities to the general public; or

4. One of the exemptions in 4 CFR 331.30(b) applies (also see Federal Acquisition Regulation (FAR) 30.301(b).

b. Contracts not exempted from CAS shall be subject to full or modified coverage as follows:

1. If the business unit receiving the award is currently performing a national defense contract or subcontract subject to full CAS coverage (4 CFR 331), this contract will have full CAS coverage and will contain the clauses from the FAR entitled Cost Accounting Standards (52.230-3) and Administration of Cost Accounting Standards (52.230-4).

2. If the business unit receiving the award is currently performing a national defense contract or subcontract subject to modified CAS coverage (4 CFR 332), this contract will have modified coverage and will contain the clauses entitled Disclosure and Consistency of Cost Accounting Practices (52.230-5) and Administration of Cost Accounting Standards (52.230-4).

A. Certificate of CAS Applicability

The offeror hereby certifies that--

______The offeror is not performing any CAS-covered national defense contract or subcontract. The offeror further certifies that it will immediately notify the Contracting Officer in writing if it is awarded any national defense CAS-covered contract or subcontract subsequent to the date of this certificate but before the date of the award of a contract resulting from this solicitation. (If this statement applies, no further certification is required.)

______The offeror is currently performing a negotiated national defense contract or subcontract that contains the Cost Accounting Standards clause at FAR 52.230-3.

______The offeror is currently performing a negotiated national defense contract or subcontract that contains the Disclosure and Consistency of Cost Accounting Practices clause at FAR 52.230-5.

B. Additional certification--CAS Appliable Offerors

_______The offeror subject to Cost Accounting Standards further certifies that practices used in estimating costs in pricing this proposal are consistent with the practices disclosed in the Disclosure Statement where it has been submitted pursuant to CASE Board regulations (4 CFR 351).

C. Data Required--CAS Covered Offerors

The offeror certifying that it is currently performing a national defense contract containing either CAS clause (see A above) is required to furnish the name, address (including agency or department component), and telephone number of the cognizant Contracting Officer administering the offeror's CAS-covered contracts.

Name of Contracting Officer:________________________________
Address:____
____
Telephone Number:____

K.15 CONTRACTOR COMMITMENTS AND WARRANTIES

Any written commitment by the Contractor within the scope of this contract shall be binding upon the Contractor. Failure of the Contractor to fulfill any such commitment shall render the Contractor liable for liquidated or other damages due to the Government under the terms of this contract. For the purpose of this contract, a written commitment by the Contractor is limited to the proposal submitted by the Contractor, and to specific written modifications to the proposal. Written commitments by the Contractor are further defined as including (1) any warranty or representation made by the Contractor in a proposal as to hardware or software performance; total systems performance; other physical, design, or functioning characteristics of a machine, software package, or system, or installation date; (2) any warranty or representation made by the Contractor concerning the characteristics or items described in (1) above made in any publications, drawings, or specifications accompanying or referred to in a proposal; and (3) any modification of or affirmation or representation as to the above which is made by the Contractor in or during the course of the Live Test Demonstration or negotiations, whether or not incorporated into a formal amendment to the proposal in question.

K.16 FIRMR 201-32.205-2 CONTRACTOR REPRESENTATION (THIS CLAUSE TO APPLY ONLY TO PROCUREMENTS ABOVE $100,000 AND INVOLVING A DATA SYSTEMS SPECIFICATION.)

Unless the Contractor expressly states otherwise in the Contractor's proposal where functional requirements are expressly

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stated as part of the requirements of this solicitation, the Contractor, by responding, represents that in its opinion the system/item proposed is capable of meeting those requirements. However, once the system/item(s) is accepted by the Government, Contractor responsibility under this clause ceases. In the event of any inconsistency between the detailed specification and the functional specification contained in the solicitation, the former will control.

K.17 GOVERNMENT PRODUCTION AND RESEARCH PROPERTY

Offerors shall state below whether to their knowledge this procurement involves the acquisition of Government production and research property, the disposal of which may be restricted by patent or other rights.

K.18 CONTRACTOR'S DATA CERTIFICATION

The offeror shall certify below whether he has delivered or is obligated to deliver to the Government under any contract or subcontract the same or substantially the same technical data included in his offer; if so, he shall identify one such contract or subcontract under which such technical data was delivered or will be delivered, and the place of such delivery.

K.19 DATA UNIVERSAL NUMBERING SYSTEM (DUNS)*

* NOTE: The "Duns" number is a Dun and Brandstreet numbering system Contractor Establishment Number.

a. The offeror shall insert the DUNS number applicable to the address entered in Block 15 of Standard Form 33, page 1 of this solicitation: _ _ _ _ _ _ _ _ _ .

b. If the offeror's production point (point of final assembly) is other than the location entered on Standard Form 33, or if additional production points are involved, the offeror is requested to furnish the DUNS numbers applicable to each production point. Spaces for inserting these numbers are provided in the clause of this solicitation where offerors are to list production point addresses.

c. If DUNS numbers have not been established for the addresses indicated in paragraphs (a) and (b) of this clause, the Government will arrange for the assignment of these numbers after award of a contract, and will notify the Contractor accordingly.

K.20 PRODUCTION POINT

The offeror shall insert in the spaces provided below (or by an attachment to the offer if additional space is needed) the names of the manufacturers of the items offered and the address, etc., of the facilities at which the items will be manufactured or produced.

Item No.	Name of Manufacturer	Production Point Address, County, and Tel. Number	Duns No.*

* See clause K.19, "Data Universal Numbering System (DUNS)."

K.21 PERCENT FOREIGN CONTENT

Approximately ________percent of the proposed contract price represents foreign content or effort.

K.22 CONTRACTOR'S REMITTANCE OR CHECK MAILING ADDRESS

Indicate your firm's remittance or check mailing address below. (See Section G.2, Payment Due Date.)

____

____

____

K.23 RESPONSIBLE OFFICIAL(S) WHO CAN RECEIVE NOTIFICATION OF AN IMPROPER INVOICE AND ANSWER QUESTIONS REGARDING THE INVOICE

Indicate below the responsible official(s) who can receive notification of an improper invoice and answer questions regarding the invoice. (See Section G.4, Invoice Requirements.)

Name (If practicable)______________________________________

Title____

Address____
____

Telephone Number____

K.24 52.222-21 CERTIFICATION OF NONSEGREGATED FACILITIES (APR 1984)

a. "Segregated facilities," as used in this provision, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees, that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin because of habit, local custom, or otherwise.

b. By the submission of this offer, the offeror certifies that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The offeror agrees that a breach of this certification is a violation of the Equal Opportunity clause in the contract.

c. The offeror further agrees that (except where it has obtained identical certifications from proposed subcontractors for specific time periods) it will--

1. Obtain identical certifications from proposed subcontractors before the award of subcontracts under which the subcontractor will be subject to the Equal Opportunity clause;
2. Retain the certifications in the files; and
3. Forward the following notice to the proposed subcontractors (except if the proposed subcontractors have submitted identical certifications for specific time periods):

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September 12, 1986

NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR CERTIFICATIONS OF NONSEGREGATED FACILITIES.

A Certification of Nonsegregated Facilities must be submitted before the award of a subcontract under which the subcontractor will be subject to the Equal Opportunity clause. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semiannually, or annually).

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

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September 12, 1986

SECTION L

INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFEROR

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September 12, 1986

SECTION L

INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFEROR

L.1 FORMAT AND INSTRUCTIONS FOR PROPOSALS

The Proposal submitted in response to this Solicitation will be formatted as indicated in Figure L-1. Offerors shall furnish two copies of Volume I, Standard Form of Contract; five copies of Volume II-A, Technical Proposal (Section C), and the Attachment I; and three copies of Volume II-B, Technical Proposal (Section CC), and the Attachments; and three copies of Volume III, Cost Proposal (only one copy of the magnetic media is required). All volumes must be self-contained, referring to other materials for clarification only. All volumes are to be packaged and clearly labelled on the outside of the container with this RFP Number (0000-620006JS) and the contents (e.g., Volume I, Volume II-B, etc.). A cover letter may accompany the Proposal to set forth any information that the Offeror wishes to bring to the attention of the Government. The Proposal shall consist of the volumes described in the following paragraphs and must include all requested information.

L.1.1 Volume I - Standard Form of Contract

This volume of the Proposal shall consist of Sections A, D, E, EE, F, FF, G, H, I, and K of the Solicitation Document (including amendments) as submitted to the Offerors.

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VOLUME I - STANDARD FORM OF CONTRACT

Section A - Cover Sheet
Section D - Packaging and Marking
Section E - Inspection and Acceptance
Section EE - Deliverables Inspection and Acceptance - Conversion
Section F - Deliveries or Performance
Section FF - Deliveries - Conversion
Section G - Contract Administration Data
Section H - Special Contract Requirements
Section I - Contract Clauses
Section K - Representations, Certifications, and Other Statements of Offerors

VOLUME II-A - TECHNICAL PROPOSAL (SECTION C)

Section 1 - Compliance With Specifications
Subsection 1.1-1.17 - Compliance with Mandatory Specifications
Section 2 - General Description
Section 3 - Management Plan
Section 4 - Configuration Management
Section 5 - Corporate Qualifications and Statement of Financial Information
Section 6 - Environmental Specifications
Section 7 - Federal Standards
Section 8 - TEMPEST Quality Assurance Standards
Section 9 - Offeror's Referenced Technical Publications
Attachment I - Glossary
Attachment II - Offeror's LTD Procedures

VOLUME II-B - TECHNICAL PROPOSAL (SECTION CC)

Section 1 - Corporate Conversion Experience and Current Capability
Section 2 - Compliance With Specifications
Section 3 - Offeror's Referenced Technical Publications
Section 4 - Offeror's Proposed Firm-Fixed-Price Methodology
Attachment I - Draft Master Conversion Plan
Attachment II - Draft Conversion Training Plan
Attachment III - Initial Conversion Proposal
Attachment IV - Draft Site Conversion Plans for a Typical Foreign and Domestic Site

Figure L-1

PROPOSAL FORMAT

VOLUME III - COST PROPOSAL

Section 1 - Unit Price Tables
Section 2 - Site Conversion Worksheets
Section 3 - Life Cycle Cost Summary
Section 4 - Bid Analysis Cost Evaluation System (BACES) Costing Information Questionnaires and Magnetic Media
Section 5 - Firm-Fixed Prices for Draft Site Conversions Plans

Figure L-1 (Cont'd)

PROPOSAL FORMAT

L.1.1.1 Section A - Cover Sheet

Blocks 13, 15, 16, and 18 of page 1 of Standard Form 33 (Section A) will be completed by Offerors and Block 17 shall be signed to show that the Offeror has read and agrees to comply with all the conditions and instructions provided in the Solicitation Document.

L.1.1.2 Sections D, E, EE, F, FF, G, H, and I

By incorporating the provisions set forth in Sections D, E, EE, F, FF, G, H, and I of the Solicitation Document into Volume I of the Proposal, the Offeror agrees to comply with these provisions.

L.1.1.3 Section K - Representations, Certifications, and Other Statements of Offerors

The Offeror must check or complete all applicable boxes or blocks in the paragraphs under Section K of the Solicitation Document and resubmit the full section as part of Volume I of the Proposal.

L.1.2 Volume II-A - Technical Proposal (Section C)

This volume of the Proposal must be bound separately and consist of the following seven sections plus the attachment. (Note: See Subsection L.20, FAR 52.215-12, Restrictions on Disclosure and Use of Data.)

L.1.2.1 Section 1 - Compliance with Specifications

In Section 1 of the Offeror's Volume II-A, the Offeror must provide a detailed description of how the Offeror will comply with each of the mandatory requirements presented in Subsections C.1 through C.17 of the Solicitation Document.

To be considered technically responsive to this Solicitation, the Offeror must meet all of the mandatory and mandatory optional requirements set forth in Subsections C.1 through C.17 of Section C of the Solicitation Document. Offerors must respond to each mandatory and mandatory optional requirement by restating each requirement and using a numbering scheme which corresponds to that used in the Solicitation Document. For example, "Subsection C.3 Hardware" of the Solicitation Document would correspond to "Subsection 1.3 Hardware" in the Offeror's Proposal (the "C" of the Solicitation Document being replaced by 1). The Offeror must restate the full requirement language. The Offeror's response to each mandatory requirement must either acknowledge Government provided information (e.g., background, existing facilities, etc.), agree to comply with contractual provisions, (e.g., terms of use, availability of equipment and software, etc.) or describe how the Offeror proposes to meet the Government specified requirements. The Offeror's description of compliance with each requirement must be in sufficient detail to allow the technical evaluation team to determine unequivocally whether the Offeror meets the requirement or not.

Subsection M.3 states that Offerors are to structure their proposals to facilitate the technical evaluation. The response to the "Item, Factor, Subfactors" contained in Subsection M.3 must be provided in the related Offeror's Subsection. For example, the response to "Item: Hardware (C.3), Factor: Central Processing Units (C.3.2)" must be provided in the Offeror's Subsection 1.3, Paragraph 1.3.2.

All costs associated with meeting the requirements of this solicitation are to be reflected in Volume III, Cost Proposal. No cost information is to appear in the Offeror's Technical Proposal.

L.1.2.1.1 Paragraph C.3.8

Paragraph C.3.8 requires the Offeror to propose the remote communications control function as either a separate unit or integral to the C1-C6 processors. The Offeror must fully describe how this requirement is implemented in the proposal.

L.1.2.1.2 Paragraph C.3.9

Paragraph C.3.9 requires the Offeror to provide three categories of LANs that differ only in the number of simultaneously connected and operating devices. The Offeror's proposal shall fully describe the LAN, its protocols, structure, transmission medium (or media), security provisions, operating environment and procedures for installation and reconfiguration.

L.1.2.1.3 Paragraph C.3.11

Paragraph C.3.11 states that the requirements of NACSIM 5100A must be certified before delivery of the first TEMPEST systems of each configuration. The Offeror must state in the proposal the plan and status of obtaining the certification by device. Furthermore, the Offeror must describe whether or not RFI shielded cabinets are used (by device).

L.1.2.1.4 Paragraph C.5.2.1.2

Paragraph C.5.2.1.2 requires hierarchical organization for communications and applications software, such that the user interface and the applications interface to the communications software are uniform over all C1-C6 processors. The Offeror's proposal shall describe how the application, presentation, and session protocols are uniform regardless of the local connectivity type and processor type.

L.1.2.1.5 Paragraph C.5.2.2.3

Paragraph C.5.2.2.3 requires that shared print servers and shared file servers or their functions be provided. The Offeror's proposal shall state whether the print server and file server functions shall be implemented within the C1-C6 processors or within the printer device and disk device.

L.1.2.1.6 Paragraph C.5.2.2.4

Paragraph C.5.2.2.4 requires that the communications provided make use of the existing AT&T System 85 PBX. The Offeror's proposal shall describe the method for interfacing to the AT&T System 85 PBX.

L.1.2.1.7 Paragraph C.5.2.3.1

Paragraph C.5.2.3.1 requires that the Offeror provide all hardware and software that implement the LAN protocols and that they be IEEE Standards or, if not, information be provided to enable DOS or its agent to develop special functions. The Offeror's proposal shall identify the LAN protocols. If the LAN protocols are not IEEE Standards, the Offeror's proposal shall describe the protocols provided and the reference information on those protocols, stating all restrictions on use of the information, if any.

L.1.2.1.8 Paragraph C.5.2.3.3

Paragraph C.5.2.3.3 requires that the LAN be capable of accepting a security module and that the Offeror be a CCEP participant or has entered into an agreement with a CCEP participant. The Offeror's proposal shall state whether the Offeror is a participant in the CCEP and the terms of any agreement with a participant, and state the status of the Offeror's development for the CCEP.

L.1.2.1.9 Paragraph C.5.2.3.4

Paragraph C.5.2.3.4 requires minimum transmission delay for a maximum load. The Offeror's proposal shall describe graphically, for each of the three required configurations, the transmission delays for each of the following number of simultaneous 1024-character interactive transactions concurrent with a non-interactive traffic load of one (1) million bps, for each of the following number of interactive users:

Number of Interactive Transactions	Number of User Work-stations Active
20	100
30	300
40	500

L.1.2.1.10 Paragraph C.5.2.3.5

Paragraph C.5.2.3.5 states that the successful Offeror will be tasked to perform an engineering study prior to the implementation of each Local Area Network. In response to this requirement, Offerors are to provide their Technical Approach and plan to accomplish these studies.

L.1.2.1.11 Paragraph C.5.2.4.2

Paragraph C.5.2.4.2 requires an interface to the 83B3 multipoint link. The Offeror's proposal shall describe the method, including all necessary hardware and software, to interface the local C1-C6 processors communications network to the 83B3 multipoint link.

L.1.2.1.12 Paragraph C.5.2.5.1

Paragraph C.5.2.5.1 requires an electronic mail directory system that allows subsets of the full directory to be maintained by area managers or individual system managers, and that the subsets and the full central directory be periodically and automatically synchronized. The Offeror's proposal shall describe the periodic synchronization procedure. Further the Offeror's proposal shall describe the relationship, if any, between the electronic mail directories and the logon directory or user profile.

L.1.2.1.13 References to Manuals

All Offeror claims must be substantiated by explicit reference to a vendor or manufacturer's published technical brochures or manuals. (Five (5) copies of all referenced technical brochures or manuals are to be submitted as part of the Technical Proposal; see Paragraph L.1.2.9 below.) The Government reserves the right to verify any or all technical claims during the Live Test Demonstration (LTD).

L.1.2.2 Section 2 - General Description

In Section 2 of the Offeror's Volume II-A, the Offeror is to provide a general overview of the proposed system. As a minimum, this description must include a configuration schematic diagram (refer to Figure C-2) for each C1-C6 configuration, Imaging 1 configuration, LAN1-LAN3 configuration, W1, C3T-C6T configuration, Imaging 1T configuration, LAN2T configuration and W1T. The schematic diagrams will be prepared in a functional form showing each device and the interconnections between these devices. These diagrams will:

- Include each separate chargeable device (provide a cross-reference to the applicable CLIN used in Section B), including descriptive name, model designation, and relevant characteristics (e.g., capacity, transmission rates, print speeds, etc.).

- Indicate clearly all CPUs, consoles, workstations, channels/data paths, main and cache memory modules, communications equipment, and peripheral devices (e.g., DASD, magnetic tape drives and controllers, high-speed line printers, etc.).

- Depict configuration modifications required to meet expansion criteria, if necessary.

In addition to the configuration schematic diagrams, the Offeror must address:

- How the proposed configurations will meet the processor system management requirements of Paragraphs C.4.1.1-C.4.1.1.13 of the Solicitation Document.

- How the proposed configurations will provide for local and world-wide communications and for access to the DOS network as required in Paragraph C.5.2 of the Solicitation Document.

- How the proposed I/O system will meet the I/O requirements resulting from the projected workload; this discussion should include a description of the proposed system's I/O architecture, bandwidth, optional expansion capabilities, etc.

L.1.2.3 Section 3 - Management Plan

To be considered technically responsive to this Solicitation, the Offeror must submit a detailed Management Plan (refer to Section J, Attachment X of this Solicitation) which specifies how the Offeror will insure that the support requirements of Section C of the Solicitation will be met. The Offeror's Management Plan should demonstrate a thorough understanding of the system to be implemented, with particular emphasis placed on any anticipated problems and the Offeror's proposed method of avoiding or resolving such problems. The Plan should also address the required management controls to assure that the system is successfully installed within the required delivery time-frame.

The Management Plan must address seven areas:

- Installation Plan
- Contingency Plan
- Maintenance Plan
- Training Plan
- Technical Assistance Plan
- Documentation and Technical Information Plan
- Software Support Plan.

Section J, Attachment X, Management Plan, contains the details of what is to be presented. Technical publications referenced either in the Management Plan or in the Offeror's Section 9, must be assembled separately. Five (5) copies of these technical publications are required (refer to Paragraph L.1.2.9).

L.1.2.4 Section 4 - Configuration Management

To be considered technically responsive to this Solicitation, the

Offeror must submit a detailed description of how the responsibilities specified in Section J, Attachment VII, Configuration Management, will be fulfilled. The "VENDOR counterpart" must be identified by name, organizational level and reporting line-of-authority. Furthermore, the VENDOR counterpart's authority as it pertains to the contract resulting from this solicitation must be described. The Offeror must also describe the method to be used to develop, record, and maintain the assigned configuration components of the baselines, as well as the Order Status and Shipping Information. The status report requirement must also be addressed along with problem resolutions as they may occur. Section J, Attachment VII, Configuration Management, contains the details of what is to be presented.

L.1.2.5 Section 5 - Corporate Qualifications

In this section of the Proposal, the Offeror must demonstrate experience in configuring, providing, installing, and supporting Government systems of a magnitude comparable to that required and specified in Section C of the Solicitation Document.

The Offeror must provide at least three (3) references of contracts similar in nature to the Contract anticipated to result from this Solicitation Document. All such references must include for the Offeror's firm and each subcontractor (if subcontractors are used, each must be identified):

a. Government agency/activity name, or commercial company

b. Contracting Officer's name and Contracting Officer's Technical Representative's name and telephone numbers

c. Contract number

d. Brief description of the system(s) installed, date(s) of installation, systems life, etc.

e. Contract value.

L.1.2.6 Section 6 - Environmental Specifications

In this section of the Proposal, the Offeror must fully describe the space and environmental conditions required for housing the proposed system, and provide these requirements by equipment category (refer to Subsections C.3 and C.11) as specified in subsection C.3. The specifications must be sufficiently detailed (with at least the requirements stated in Paragraphs C.11.1, C.11.2 and C.11.3) to ensure that the equipment will operate properly in any environment which meets these furnished specifications. The existing facilities are described in Subsection C.11 of the Solicitation Document.

It is the Offeror's responsibility to present accurate specifications for any environmental requirements which exceed those of existing facilities. The Government will prepare the site at its own expense and in accordance with the equipment environmental specifications furnished in this section of the Offeror's Proposal. Any alterations or modifications in site preparation which are directly attributed to incomplete or erroneous equipment environmental specifications provided by the Offeror which would involve additional expenses to the Government will be made at the expense of the Contractor.

L.1.2.7 Section 7 - Federal Standards

By incorporating Section J, Attachment VI of the Solicitation Document into Volume II-A, Section 7 of the Proposal, the Offeror agrees to comply with these requirements.

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L.1.2.8 Section 8 - TEMPEST Quality Assurance Procedures

By incorporating Section J, Attachment VIII of the Solicitation Document into Volume II-A, Section 8 of the Proposal, the Offeror agrees to comply with these requirements.

L.1.2.9 Section 9 - Offeror's Referenced Technical Publications

In this section, the Offeror is to provide five (5) copies of all referenced brochures or manuals. These documents are to be separately packaged, and a list to include document name, document number (if applicable) and date is to be placed in the Technical Proposal as Section 9.

Only pertinent technical manuals are desired. No sales manuals are solicited nor will they be evaluated.

The literature furnished must be identified to show the item in the offer to which it pertains. The technical literature is required to establish, for the purposes of Offer validation and award, details of the products the Offeror proposes to furnish. Failure of technical literature to show that the product offered conforms to the specifications and other requirements of this Request for Proposals may cause rejection of the Offer.

L.1.2.10 Attachment I - Glossary

This attachment will consist of Attachment I (in Section J) from the Solicitation Document plus any additional terms (with accompanying definitions) which will assist in understanding the Offeror's Proposal.

L.1.2.11 Attachment II - Offeror's LTD Procedures

Paragraph 2.3 of Section J, Attachment XX, requires the Offeror to review the Government scenario scripts and to submit with the proposal the Offeror's LTD procedures (those Offerors who request the LTD Procedures Manual and Physical Tapes as discussed in Paragraph 2.1 of Section J, Attachment XX). Failure to submit the LTD Procedures will be considered non-responsive. These procedures are to include any script deviations required by the Offeror, incorporate the data requirements into the event-by-event process, and provide any Offeror unique processing requirements.

L.1.3 Volume II-B - Technical Proposal (Section CC)

This volume of the Proposal must be bound separately and consist of the following three sections plus the attachments. (Note: See Section L.20, FAR 52.215-12, Restrictions on Disclosure and Use of Data.)

L.1.3.1 Section 1 - Corporate Conversion Experience and Current Capability

In this section of the Offeror's Volume II-B, Offerors must demonstrate and provide evidence of their ability to manage, staff, organize and execute projects similar in scope and complexity to this solicitation.

Subsection M.4 states that Offerors are to structure their proposals to facilitate the technical evaluation. The response to the "Item, Factor, Standard" contained in Subsection M.4 must be provided in the related Offeror's Section and Subsection. For example, the response to "Item: Corporate Conversion Experience and Current Capability, Factor: Demonstrated Corporate Management and Technical

Experience on Similar Projects" must be provided in the Offeror's Subsection 1.1, Paragraph 1.1.1.

All Offeror claims must be substantiated by explicit reference to a vendor or manufacturer's published technical brochures or manuals.

L.1.3.1.1 Demonstrated Corporate Management and Technical Experience on Similar Projects

The Offeror shall provide written project summaries which demonstrate a history of project management experience in providing the conversion services being solicited. A minimum of three (3) project summaries shall be provided. The summaries shall include the following:

a. Project name

b. Contract number (if applicable) and dollar amount

c. Government agency or firm name

d. References (including names, titles, and telephone numbers)

e. Subcontractors used (indicate percentage of project performed by subcontractors)

f. Number of lines of code converted (listed by system, lines of code per language)

g. Number of files converted per system

h. Operating system(s) used (including release levels)

i. Date project started and completed

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The Offeror shall describe its corporate technical experience for the past five years in the following areas:

j. Experience with software development and implementation on the Offeror's proposed target environment equipment

k. Experience with system development and implementation on other computer hardware and operating systems

l. Experience in converting systems to the Offeror's proposed target environment equipment

m. Experience in converting systems to other computer hardware and operating system environments

n. Other conversion technical experience which the Offerur deems relevant to this solicitation.

L.1.3.1.2 Conversion Organization and Staffing

Offerors shall describe their approach for organizing and staffing the conversion effort. This shall include the following:

a. A description of the project structure for accomplishing the conversion. This description must describe how the Offeror's project structure will interact with and support the Government's tentative project management organization (reference Section CC, Subsection CC.4.3).

b. A staffing plan which describes the number and kinds of positions, and the number of personnel in those positions to support the conversion effort. This plan should be formulated with respect to the installation schedule (Attachment IX), the

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project approach (Section CC, Subsection CC.4.2), and the Offeror's proposed conversion approach(es) (as specified by Section CC, Paragraph CC.6.2.2). Resumes must be provided for personnel in key conversion positions.

c. A description of the methods that the Offeror or Subcontractor intends to use to augment/recruit the required staff for those persons not currently employed by the Offeror. Include evidence of the success of previous similar staff augmentations.

L.1.3.2 Section 2 - Compliance with Mandatory Specifications

In this section of the Offeror's Volume II-B, the Offeror must provide a detailed description of how the Offeror will comply with each of the mandatory and mandatory optional requirements presented in Section CC, Subsections CC.4 through CC.8 of the Solicitation Document.

To be considered technically responsive to this Solicitation, the Offeror must meet all of the mandatory and mandatory optional requirements set forth in Section CC, Subsections CC.4 through CC.8 of the Solicitation Document. Offerors must respond to each mandatory and mandatory optional requirement by restating each requirement and using a numbering scheme which corresponds to that used in the Solicitation Document. For example, "Subsection CC.5 REQUIRED CONVERSION SUPPORT FACILITIES" of the Solicitation Document would correspond to "Subsection 2.5 Required Conversion Support Facilities" in the Offeror's Proposal (the "CC" of the Solicitation Document being replaced by 2).

The Offeror must restate the full requirement language. The Offeror's response to each mandatory requirement must either acknowledge Government provided information (e.g., background, project approach, etc.), agree to comply with contractual provisions, (e.g., terms of use, availability of software, etc.) or describe how the Offeror proposes to meet Government specified requirements. The Offeror's description of compliance with each requirement must be in sufficient detail to allow the technical evaluation team to determine unequivocally whether the Offeror meets the requirement or not.

Subsection M.4 states that Offerors are to structure their proposals to facilitate the technical evaluation. The response to the "Item, Factor, Standard" contained in Subsection M.4 must be provided in the related Offeror's Subsection. For example, the response to "Item: Conversion Support Facilities (CC.5), Factor: Conversion Tools/Aids (CC.5.1)" must be provided in the Offeror's Subsection 2.5, Paragraph 2.5.1.

All Offeror claims must be substantiated by explicit reference to a vendor or manufacturer's published technical brochures or manuals. (Five (5) copies of all referenced technical brochures or manuals need be submitted as part of the Technical Proposal; see L.1.3.3 below.).

All costs associated with meeting these requirements are to be reflected in the Cost Proposal. No cost information is to appear in the Offeror's Technical Proposal; however, conversion costs must be substantiated by the Offeror's proposed conversion approach and fixed-price methodology which is submitted as Section 4 in Volume II-B.

L.1.3.3 Section 3 - Offeror's Referenced Technical Publications For Conversion

In this section, the Offeror is to provide five (5) copies of all referenced brochures or manuals. These documents are to be separately packaged, and a list to include document name, document number (if applicable) and date is to be placed in the Technical Proposal as Section 3 of Volume II-B.

The literature furnished must be identified to show the item in the Offer to which it pertains. The technical literature is required to establish, for the purposes of Offer validation and award, details of the products the Offeror proposes to furnish. Failure of technical literature to show that the product offered conforms to the specifications and other requirements of this Request for Proposals may cause rejection of the Offer.

L.1.3.4 Section 4 - Offeror's Proposed Firm-Fixed-Price Methodology

The Department of State realizes that the conversion requirements and associated vendor pricing of same are the single most complicated issue to be dealt with for this procurement. Initial conversion requirements for standard software, to be converted during Phase I, have been set forth clearly in the RFP and in the Reading Room. However, it is virtually impossible to state with 100% accuracy what the actual future conversion requirements will be at any given site, in any given year. Therefore, in order to project Phase III conversion requirements, this solicitation has specified a framework of requirements which are to be used, for evaluation purposes, to propose against the future conversion requirements. The solicitation specifies guidelines which must be followed in the presentation of technical and cost proposals related to the conversion requirements. In order to handle the costing of the conversions, the following approach has been taken:

1. A firm-fixed price for all Phase I conversion activities must be proposed. This price will include, but is not limited to, the conversion of specific standard software, as defined in Section CC.6.4 of this RFP and as set forth in the Reading Room (see Section J, Attachment XVIII).

2. A firm-fixed-pricing methodology for use during Phase III must be proposed and described in detail. This methodology will be used for three purposes: first, it will be the basis justifying the life cycle costs for purposes of proposal evaluation; second, it will be the basis for the procedures to be used by the Offeror to propose future conversion efforts during Phase III of the acquisition; third, it will be the method by which the Government will evaluate each firm-fixed-price Offeror proposal for all Phase III conversion efforts. For the purposes of proposal evaluation, one firm-fixed-pricing methodology will be used. As Phase II activities proceed, the development of Group Conversion Plans (GCP) will refine each firm-fixed-pricing methodology in accordance with the proposed and Government - accepted conversion approach for the GCP. Each revised firm-fixed- pricing methodology, if more than one are required, will be incorporated into the Site Conversion Plan (SCP) review and acceptance process for the corresponding GCP.

Refer to Section CC for the descriptions of Phase I, II and III activities as well as GCPs and SCPs.

The firm-fixed-pricing methodology proposed must incorporate the requirements as set forth in Section CC, and Attachments IX and XIII of Section J. It is expected that the methodology will take into account differing conversion requirements such as lines of code, volumes of data and documents to be converted from source to target systems, number of standard and local unique applications to be converted and installed, and the Offeror's proposed approach to the conversion. In addition, a mechanism must be built into the methodology that takes into consideration that less than all standard applications are implemented at standard production sites (refer to the assumption in Section B, Paragraph B.2.2k).

To be considered responsive to this solicitation, Offerors must submit as Section 4, Volume II-B, a detailed description of their approach to the conversion and their firm-fixed-pricing methodology for establishing costs to accomplish each Phase III conversion. Please note that the Government may reject unreasonable firm-fixed-pricing methodologies, will evaluate each Offeror proposed approach completely, and award additional technical points for the reasonableness and simplicity of the proposed approach. Approaches which do not clearly bind the Offeror and which do not protect the Government may be rejected.

The Offeror proposed conversion-related levels of effort, both for the Offeror and for the Government, will be evaluated in detail. The proposed levels of effort will also be used as a basis for computing the costs associated with each future conversion effort and associated firm-fixed cost proposal. For example, if the Offeror proposed to provide 2000 hours of "free" effort for a conversion effort, this 2000 hours of "free" effort is to be consistently applied by the Offeror for all referenced sites of the permutation; the Government will apply this 2000 hours of free effort to payment of the related conversion invoices. In order to illustrate to the Government's Proposal Evaluation Team the mechanics and logic of the firm-fixed pricing methodology, two SCPs shall be prepared and submitted with the Offeror's proposal as Attachment IV of Volume II-B (refer to instructions in Paragraph L.1.3.8) in accordance with the requirements set forth in Section CC, Paragraph CC.4.1.3 of this Solicitation.

L.1.3.5 Attachment I - Draft Master Conversion Plan

This attachment will consist of the Draft Master Conversion Plan (MCP) as required in Section CC, Subsection CC.6.2. The Draft MCP must be developed in accordance with the MCP format and content specifications in Section J, Attachment XIV of this Solicitation document.

L.1.3.6 Attachment II - Draft Conversion Training Plan

This attachment will consist of the Draft Conversion Training Plan as required in Section CC, Subsection CC.6.3. The Draft Conversion Training Plan must be developed in accordance with the training plan organization and content specifications in Section CC, Paragraph CC.6.2.4 of this Solicitation document.

L.1.3.7 Attachment III - Initial Conversion Proposal

The Offeror must prepare an initial conversion Group Conversion Plan (GCP) and its associated Site Conversion Plans (SCP) for each Initial Development Site in accordance with the requirements set forth in Paragraph CC.5.4 and Paragraph CC.6.4. The preparation of each SCP will set forth a detailed initial conversion plan for each development site listed in Figure CC-6-3. Format and content requirements for the initial SCPs are set forth in Paragraphs CC.6.4 through CC.6.4.2. As designated in Figure CC-6-3, Firm-Fixed-Prices for mandatory conversion activities must be proposed and fully described.

L.1.3.8 Attachment IV - Draft Site Conversion Plans for a Typical Foreign and Domestic Site

The Offeror must submit a reasonably comprehensive Site Conversion Plan (SCP) for a typical foreign and domestic site in accordance with the requirements set forth in Paragraphs CC.4.1.3. Offerors must utilize their firm-fixed-price methodology and submit, for evaluation purposes, the associated costs (in Volume III, Section 5 of the cost proposal in conjunction with the two sample-sites draft SCPs.

Offerors shall use the outline in Figure CC-8-1 of Section CC,modified to exclude or reduce the information content in accordance with the following instructions:

- Sections 2 and 3 - Limited to information available in Section J, Attachment XIII
- Section 6 - Assume full contractor responsibility for conversion activities wherever possible
- Section 7 - Address, quantify and qualify all required Government support
- Section 8 and Attachments I and J - Submit in Section 5 of Volume III - Cost Proposal
- Section 9 - List typical risks and the proposed risk avoidance measures
- Attachment A - Limited to information available in Section J, Attachment XIII.
- Attachment B - Limited to information present in Section CC, Paragraph CC.4.1.3.
- Attachment C - Present the format for documentation assessment which will be used in the SCP, including relevant assumptions for a typical site to be converted.

All other Sections and Attachments for the two SCPs must be submitted. This information will be evaluated as directly correlated to the conversion approach set forth in the draft MCP, Attachment I of Volume II-B of the Technical Proposal.

The primary purpose of this submission is to ensure that, for a real-life situation, the firm-fixed pricing methodology can be effectively demonstrated and that it can be later used effectively as the cost management tool for conversion of all Phase III sites. If separate conversion approaches and associated firm-fixed pricing methodologies are proposed, corresponding separate sets of SCPs (separate Attachment IV, Volume II-B of the Offeror's Proposal) must be prepared and submitted, including a clear reference to the corresponding conversion approaches as defined in the draft MCP (Attachment I, Volume II-B of the Offeror's Proposal).

L.1.4 Volume III - Cost Proposal

This volume of the Proposal must be bound separately and will consist of five sections.

L.1.4.1 Section 1 - Unit Price Tables

In this section of the Proposal, the Offeror is required to submit a response to the Unit Price Tables contained in Section B of the Solicitation Document. These Unit Price Tables must contain all the costs pertinent to hardware, software, and services. The model numbers and quantities shown in the price tables must be identical to the model numbers and quantities shown in the configurations offered. All mandatory and mandatory optional items offered must be listed in these Unit Price Tables. If there is no price associated with the item, "N/C" (no charge) shall be inserted in the unit price columns.

L.1.4.2 Section 2 - Site Conversion Worksheets

In this section of the Proposal, the Offeror is required to submit Site Conversion Worksheets in accordance with Section B.5 of the Solicitation Document. The costs presented on the Worksheets must be

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substantiated by the Offeror's firm-fixed-price methodology submitted as Section 4, Volume II-B of the Offerors proposal.

L.1.4.3 Section 3 - Life Cycle Cost Summary

In this section of the Proposal, the Offeror is required to show the summation of the unit prices of Section 1 above into system prices by month over the stated life of the contract described for evaluation purposes only in Attachment IX in the Solicitation Document. A separate Table B-6 should be submitted for each procurement plan offered and titled: Table B-6 'Lease,' Table B-6 'Purchase,' etc., as appropriate. Subsection B.2 of this Solicitation contains the assumptions that are to be used in the preparation of Table B-6.

L.1.4.4 Section 4 - Bid Analysis Cost Evaluation System (BACES) Costing Information Questionnaires and Magnetic Media

In this Section of the Proposal, the Offeror will submit the Costing Information Questionnaires and the magnetic data files required for BACES in accordance with Subsection B.7 of the Solicitation Document.

L.1.4.5 Section 5 - Firm-Fixed Prices for Draft Site Conversion Plans

In this Section of the Proposal, the Offeror will submit all necessary worksheets, cost tables and related assumptions, including a clear bottom-line price for each of the sample SCPs submitted in Volume II-B, Attachment IV - Draft Site Conversion Plans for a Typical Foreign and Domestic Site. The contents shall be presented as Section B and Attachments I and J for each sample site draft SCP (reference Paragraphs CC.4.1.3 and L.1.3.8 for corresponding requirements and instructions).

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L.1.4.6 Section 6 - Small Business and Small Disadvantaged Business Subcontracting Plan

In this Section of the Proposal, the Offeror will submit the plan required by FAR 52.219-9 (reference Subsection I.22).

L.2 AMENDMENTS TO PROPOSAL

Changes to the Proposal by the Offeror shall be accomplished by amended page(s). Changes from the original page shall be indicated by a vertical line, adjacent to the change, on the outside margin of the page. The Offeror shall include the date of the amendment on the lower right-hand edge of the page.

L.3 ALTERNATE PROPOSALS

An Offeror may submit one alternate proposal presenting significantly different basic approaches, providing the primary and alternate proposals submitted both meet the mandatory requirements set forth herein. Minor variations in Central Processing Unit and Immediate Access Storage size, number of tapes or tape speeds, printer speeds, or cost for example, are not considered significantly different basic approaches.

If an alternate proposal is submitted the proposal must be: (1) clearly labeled on the cover page of each separate document therein, (2) prepared in accordance with the proposal preparation instructions contained in Subsection L.1 and (3) be submitted concurrently with the Offeror's basic proposal. Offerors are advised that the "Late Submissions, Modifications, and Withdrawals of Proposals" provision incorporated by reference in Section L of this RFP applies equally to the alternate proposal, provided it meets the above criteria, will be separately evaluated, validated to insure that it meets all of the mandatory requirements and cost evaluation criteria of the basic proposal.

L.4 METHODS OF ACQUISITION

The following methods of acquisition, or combinations thereof, may be offered:

a. Purchase. Outright purchase after installation and acceptance of equipment.

b. Lease.

   1. Straight Lease - The Contractor retains title to the equipment throughout the system life. Any lease plan offered will be subject to Subsection I.2, "Term of Contract," and I.3.1, "Option to Extend Term of Contract."

   2. Lease with Option to Purchase (LWOP) - Lease with option to purchase at predetermined intervals of time. The purchase price is reduced by subtracting rental credits as set forth in the Offeror's Proposal. Any LWOP offered will be subject to Subsection I.2 and I.3.1.

c. Special Plans.

   1. Lease to Ownership Plan (LTOP) - A plan whereby title transfers to the Government after n months of lease/rental. Any LTOP offered will be subject to Subsection I.2, I.3.1, and I.1.1, "Risk of Loss or Damage - Lease."

2. Installment Purchase Plan (IPP) - An LTOP under which the Government is granted "encumbered" title after installation and acceptance of equipment, with clear title passing at the end of the Contract. Any IPP offered will be subject to Subsection I.2, I.3.1 and I.1.1.

L.5 THE CONTRACT

The Contract, when consummated by the Government, shall consist of Volumes I, II-A (including Attachments I and II), II-B (including Attachments I, II, III and IV), and III of the Proposal and any amendments thereto.

L.6 TYPE OF CONTRACT

The Government contemplates award of a Fixed-Price, Indefinite Quantity Contract with economic price adjustments described in Subsections I-18, I-19 and I-20.

L.7 PRIME CONTRACTOR RESPONSIBILITIES

Offerors are strongly encouraged to include in their proposals hardware, software, and support services marketed by other suppliers when such inclusions provide the Government with a lower overall system cost. However, the Offeror will be the prime contractor for procurement and maintenance of all hardware, software and support services offered. The Offeror alone will be held responsible by the Government for performance of all Contractor's obligations under any Contract resulting from their Proposal. The Government, in turn, will render payment of any and all charges resulting from the purchase, lease, licensing, or maintenance of the entire system(s) configuration solely to the prime Contractor.

L.8 ORAL PRESENTATIONS

Oral presentations may be required. If requested, these presentations will provide an opportunity for the Offerors to clarify unusual equipment characteristics or other significant elements of the proposal to ensure understanding. Subsequent to the receipt of proposals, the Government may schedule a time for oral presentations to be held.

L.9 INQUIRIES

Inquiries concerning the Solicitation Document should be submitted in writing to the issuing office. Answers to questions will be provided to all Offerors being solicited, giving due regard to the proper protection of proprietary information. OFFERORS ARE INSTRUCTED SPECIFICALLY TO CONTACT ONLY THE SOLICITATION ISSUING OFFICE IN CONNECTION WITH ANY ASPECT OF THIS REQUIREMENT PRIOR TO CONTRACT AWARD. PROPOSALS AND ALL CORRESPONDENCE RELATING TO THE SOLICITATION DOCUMENT WILL BE SUBMITTED TO THE ISSUING OFFICE.

L.10 GOVERNMENT-FURNISHED MATERIAL, LABOR, OR FACILITIES

No material, labor, or facilities will be furnished by the Government unless otherwise provided for in the Solicitation Document.

L.11 INCURRING COSTS

The Contracting Officer is the only person who can legally obligate the Government for the expenditure of public funds. Costs shall not be incurred by recipients of the Solicitation Document in anticipation of receiving direct reimbursement from the Government.

L.12 PROPOSALS NOT SELECTED

L.12.1 Non-Selection

Non-selection of any proposal will mean that another acceptable proposal was deemed to be more advantageous to the Government, or that no proposal was accepted. Offerors whose proposals are not accepted will be so notified. Such notification will be devoid of any criticism of the proposal and of any implication that the proposal or proposed equipment was deficient. Unsuccessful Offerors may request a debriefing.

L.12.2 Disposition of Proposals

After a Contractor has been selected, unsuccessful proposals will be disposed of as follows: One copy of each proposal will be retained by the issuing office and the remainder will be destroyed. No destruction certificate will be furnished.

L.13 NEWS RELEASES

Offerors will make no news releases pertaining to the procurement without prior agency approval and then only in coordination with the Contracting Officer.

L.14 ANNOUNCEMENT OF AWARD

After having notified the successful Offeror and all other participating Offerors, announcement of the Contract award will be made in the Commerce Business Daily.

L.15 AVAILABILITY OF SPECIFICATIONS AND STANDARDS

Information as to the source from which copies of specifications and standards cited in this Solicitation may be obtained is available from the issuing office.

L.16 USE OF EXISTING GOVERNMENT PRODUCTION AND RESEARCH PROPERTY

If an Offeror intends to use existing Government-owned facilities in the performance of this proposed contract, the following shall be furnished with the Offer: (1) Description and value of all Government production and research property which the Offeror or his/her anticipated subcontractors propose to use on a rent-free basis and the cognizant Government Contract Number; (2) Written permission of the Contracting Officer having cognizance of the property for use of that property without charges; (3) Amount of use (in months) to be made of such property, and (4) Amount of rent which would otherwise be charged for such use, computed in accordance with applicable procurement regulations.

L.17 LABOR INFORMATION

General information regarding the requirements of the Walsh-Healey Public Contracts Act (41 U.S.C. 35-45), the Contract Work Hours Standards Act (40 U.S.C. 327-330), and the Service Contract Act of 1965 (41 U.S.C. 351-357) may be obtained from the Department of Labor, Washington, D.C. 20210, or from any regional office of that agency. Requests for information should include the solicitation number, the name and address of the issuing agency, and a description of the supplies or services.

L.18 SMALL BUSINESS CONCERN

A small business concern for the purpose of Government procurement is a concern, including its affiliates, which is independently owned and operated, is not dominant in the field of operation in which it is submitting Offers on Government contracts, and can further qualify under the criteria concerning number of employees, average annual receipts, or other criteria, as prescribed by the Small Business Administration. (See Code of Federal Regulations, Title 13, Part 121, as amended, which contains detailed industry definitions and related procedures.)

L.19 DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA

Offerors should note that the Solicitation Document includes a provision requiring the listing of employment openings with the local office of the State Employment Service system where a contract award is for $10,000 or more.

L.20 FAR 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (APR 1984)

This Solicitation incorporates the following solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available.

I. Federal Acquisition Regulation (48 CFR CHAPTER 1) Solicitation Provisions

52.215-5 SOLICITATION DEFINITIONS (APR 1984)

52.215-7	UNNECESSARILY ELABORATE PROPOSALS OR QUOTATIONS (APR 1984)
52.215.8	ACKNOWLEDGEMENT OF AMENDMENT TO SOLICITATIONS (APR 1984)
52.215-9	SUBMISSION OF OFFERS (APR 1984)
52.215-10	LATE SUBMISSIONS, MODIFICATIONS, AND WITHDRAWALS OF PROPOSALS (APR 1984)
52.215-12	RESTRICTION ON DISCLOSURE AND USE OF DATA (APR 1984)
52.215-13	PREPARATION OF OFFERS (APR 1984)
52.215-14	EXPLANATION TO PROSPECTIVE OFFERORS (APR 1984)
52.215-15	FAILURE TO SUBMIT OFFER (APR 1984)
52.215-16	CONTRACT AWARD (APR 1985)
52.222-24	PRE-AWARD ON-SITE EQUAL OPPORTUNITY COMPLIANCE REVIEW (APR 1984)
52.237-1	SITE INSPECTION (APR 1984)

L.21 FAR 52.233-2 SERVICE OF PROTEST (JAN 1985)

Protests, as defined in Section 33.101 of the Federal Acquisition Regulation, shall be served on the Contracting Officer by obtaining written and dated acknowledgement of receipt from:

If handcarried or sent via DHL, Federal Express, etc., the address is -

Department of State
Procurement Branch, Room 528
1701 North Fort Myer Drive
Arlington, Virginia 22209

If mailed, the address is -

Department of State
Procurement Division
P.O. Box 9115, Rosslyn Station
Arlington, Virginia 22209

September 12, 1986

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SECTION M

EVALUATION FACTORS FOR AWARD

M.1 EVALUATION OF PROPOSALS

Proposals to be acceptable and eligible for evaluation must be prepared in accordance with, and comply with the instructions given in this Solicitation document. The Government will evaluate Volume I of the Offeror's proposal, which contains Sections A, D, E, EE, F, FF, G, H, I and K, to determine compliance with the requirements contained in these Sections of the RFP. Proposals also must meet all the mandatory and mandatory optional requirements set forth in Sections C and CC. Proposals meeting the mandatory and mandatory optional requirements and complying with the provisions of the Standard Form of Contract will be evaluated and award made to that responsible offeror whose proposal is determined to be the Greatest Value to the Government, price and technical factors considered, for the system life. Cost to the Government includes the Offeror's prices (equipment, software, conversion, and support) over the system life and any predetermined Government expenses for ADPE installation and operations.

M.1.1 Evaluation Process

To determine the Value to the Government of each proposal, the following formula will be used:

a. Technical Capability - Individual Offeror's technical score for evaluations contained in subsections M.3 and M.4, divided by a perfect score and then multiplied by the assigned factor for technical capability which is 50 percent.

b. Cost - Total price over the system life of 96 months of the lowest offer received divided by the individual Offeror's total price, over the system life of 96 months, multiplied by the assigned factor for cost which is 50 percent.

c. Value to the Government (VTG) - The resultant value for technical capability plus the resultant value for cost equals the VTG.

The methodology that will be used in the evaluation consists of seven major phases:

- Compliance with Mandatory Requirements
- Weighted Technical Capabilities
- Cost Evaluation
- Clarification
- Competitive Range
- Performance Validation
- Negotiations; Best and Final Offers (if Government elects).

The following paragraphs describe these phases.

M.1.2 Compliance With Mandatory Requirements

Offerors' proposals will be evaluated for completeness and compliance with instructions set forth in Section L of this document, compliance with Sections D, E, EE, F, FF, G, H, I and K requirements, and in compliance with all the mandatory and mandatory optional requirements set forth in Sections C and CC. This evaluation phase is on a pass/fail basis.

M.1.3 Weighted Technical Capabilities

The Offeror's proposals that pass the Compliance with Mandatory Requirements Evaluation will be evaluated for the Weighted Technical Capabilities. Not all mandatory requirements are further evaluated in the Weighted Technical Capabilities Evaluation phase. The Government has selected for the Weighted Technical Capabilities those requirements considered to require further evaluation and award of points.

This phase of the evaluation uses an item, factor, subfactor scoring methodology. Points are awarded using the criteria set forth in Subsections M.3 (in support of Section C) and M.4 (in support of Section CC). Each major evaluated technical area (hardware, software, operational requirements, management plan, configuration management, corporate qualifications, and conversion) is termed an item, and the item has been divided into specific factors. The factors are further divided into subfactors, and each subfactor has an associated standard by which point award is guided.

The point levels for the item, factor, subfactor are considered to be internal evaluation methodology and are not available for Offerors review. The relative order of importance to the Government of the major evaluation areas (items), and they are not of equal value, are as follows, listed in descending order of importance:

Software
Hardware
Conversion
Management Plan
Operational Requirements
Configuration Management
Corporate Qualifications

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Individual evaluator technical scoring will be averaged to establish the Offeror's technical capability score part of the VTG.

M.1.4 Cost Evaluation

The Offeror's Cost Proposal will be evaluated if the Compliance with Mandatory Requirements Evaluation was assigned a pass. The Government will use the American Computer Systems Corporation's (AMCCOR) Bid Analysis Cost Evaluation System (BACES) to perform the analysis. The BACES uses the Office of Management and Budget (OMB) Circular A-94 for determining the present value analysis, and it performs a system life (96 months for this acquisition) analysis. The BACES also ranks alternatives on cost proposals, calculates various cost or financing options and determines the best financial terms and lowest cost to the Government. Offeror's submitted costs will be audited by the Government using the submitted cost tables, substantiating materials and information in the technical proposals. The Government will further reconcile the computed total costs from the Offeror's Proposal with the individual Offeror. The Offeror's cost score will then be used as part of the VTG.

M.1.4.1 Mandatory Optional Features

The cost of each mandatory optional feature, as evaluated in Section B, will be added to the total cost as part of the mandatory requirements.

M.1.4.2 Government Costs

Each Offeror is to add the Government costs to the cost proposal for evaluation purposes as stated in Paragraph M.5.2.2.

M.1.5 Clarification

If the Government deems that clarification(s) is required during any of the three preceding phases, the Offeror will be given the opportunity to provide clarifications. Each such clarification request will have a date/time by which the response is to be received. Failure to meet the response due date may be considered grounds to proceed with the evaluation and the possible adverse affect on the Offeror's evaluated score.

M.1.6 Establish Competitive Range

The competitive range will be those proposals that have been evaluated as offering the apparent greatest Value to the Government (VTG) (refer to Paragraph M.1.1). Those Offerors whose technical and cost scoring falls within this competitive range shall be scheduled for Performance Validation. Offerors not falling within the competitive range shall not be considered further.

M.1.7 Performance Validation (Live Test Demonstration)

The Department of State will schedule Live Test Demonstrations (LTDs) with the Offerors in the Competitive Range. This part of the evaluation will be on a pass/fail basis. Any additional points that may have been awarded during the Weighted Technical Capabilities evaluation phase are subject to being validated during the LTD. Those points that were awarded and not validated as such, will be subtracted during the final Value to the Government calculation.

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M.1.8 Negotiations; Best and Final Offers

The Government may conduct negotiations with each Offeror within the competitive range upon completion of a successful Performance Validation. The Government may, however, proceed to award based on the Offerors' initial proposals without further discussion or a call for Best and Final Offers. After negotiations, if conducted, each Offeror in the competitive range will be requested to furnish their Best and Final offer, and the Value to the Government scores will be reassessed at that time.

M.2 FIRMR 201-32.205-3 FIXED PRICE OPTIONS (APR 84)

(a) This solicitation is being conducted on the basis that the known requirements extend beyond the initial contract period to be awarded, but due to the unavailability of funds, including statutory limitations on obligation of funds, the option(s) cannot be exercised at the time of award of the initial contract. There is a reasonable certainty that funds will be available thereafter to permit exercise of the options. Because realistic competition for the option periods is impracticable once the initial contract is awarded, it is in the best interest of the Government to evaluate options in order to eliminate the possibility of a "buy-in."

(b) In order to safeguard the integrity of the Government's evaluation and because the Government is required to acquire ADPE and related items on the basis of fulfilling the systems life requirement at the lowest overall cost, price and other factors considered, requirements for optional periods as well as initial requirements will be evaluated for award on a fixed price basis. Since the systems or items to be procured under the solicitation have an expected life of 96 months (hereafter referred to as "system life" or "item Life," as appropriate), and since lowest system (item) life costs are synonymous with lowest overall costs, the contract resulting from this solicitation will contain options at fixed prices for renewals for subsequent periods based on fiscal years throughout the projected system (item) life. Despite the foregoing, offerors are reminded that although the evaluation that will lead to contract award will be based on system (item) life costs, the award of the initial contract as well as the exercise of the option(s) is dependent not only on the continued existence of the requirement and the availability of funds but also on an affirmative determination that each exercise of an option is in the best interest of the Government.

(c) Options included in offers submitted in response to this solicitation will be evaluated as follows:

(1) Firm-Fixed Prices

To be considered acceptable under the solicitation, Offerors must offer (i) fixed prices for the initial contract period for the initial system or items being procured, (ii) fixed prices or prices which can be finitely determined for each separate option renewal period, which prices must remain in effect throughout that period.

(2) Evaluation of Prices

Offers will be evaluated for purposes of award by adding the total prices of all optional periods to the total price for the initial contract period covering the initial systems or items. These prices will be adjusted by the appropriate discount factors shown in Table B-6 of Section B of the solicitation document. Evaluation of option prices will not obligate the Government to exercise the options. Offers which do not include fixed or determinable system-life prices cannot be evaluated for the total system-life requirement and will be rejected. Offers which meet the mandatory requirements will be evaluated on the basis of lowest overall cost to the Government, price and other factors considered. Mandatory optional features will also be evaluated.

(3) Separate Charges

Separate charges, in any form, are not solicited. Offerors containing any charges for failure to exercise any option will be rejected.

(d) Selection of an offer shall be made on the basis of the lowest overall cost, price and other factors considered, to the Government provided that the contract price reasonably represents the value of bona fide fiscal year requirements, rather than representing, to any extent, a portion of any other fiscal year's requirements. This determination with respect to the contract price shall be made after consideration of such factors as commercial or catalog prices for short term leases, Offeror system startup expenses, multiyear price protection, and assured system-life availability of equipment, software, and vendor support. If a determination is made that an offer does not meet these criteria, that offer cannot be accepted for award.

(e) Award of an initial contract will not obligate the Government to exercise any contractual option. Prior to exercising any option, the Government will make a determination that (i) funds are available, (ii) the requirement covered by the option fulfills an existing need of the Government, and (iii) the exercise of the option is the most advantageous method of fulfilling the Government's need, price and other factors considered.

(f) Failure to exercise an option shall not obligate the Government to pay any charges other than the contract price including exercised options.

(END OF PROVISION)

M.2.1 Prompt-Pay Discount

Any prompt-pay discounts offered will not be evaluated, but may be taken if offered.

M.3 WEIGHTED TECHNICAL CAPABILITY EVALUATION CRITERIA IN SUPPORT OF SECTION C

The Weighted Technical Capability phase of the evaluation in support of Section C will employ an "Item, Factor, Subfactor" method to determine points to be awarded. Major Statement of Work Subsections (Hardware, Software, Operational Requirements, Management Plan, Configuration Management, and Corporate Qualifications) have been designated as "Items." Requirements as set forth in Section C that are to be evaluated in this phase are summarized under each Item. The Factors by which these Items are to be evaluated are then listed followed by the Features Evaluation (the Subfactors). Specific standards are provided to guide point award against each Subfactor. Offerors are required to respond to each factor/subfactor listed with, as a minimum, the information requested in the standard associated with that factor/subfactor.

All Section C mandatory requirements must be met by the Offeror during the Compliance with Mandatory Requirements Evaluation in order to be qualified for continued consideration as discussed earlier in this Section M. For evaluation purposes, the Items, Factors and Subfactors have been weighted based on the relative importance of each to the contract to be awarded.

Not all Section C mandatory requirements are further evaluated, as stated previously. For this phase of the evaluation, however, the Government has determined a "standard" that will be used by evaluators to determine how well Offerors meet the designated mandatories. Point awards may vary from zero to a maximum amount depending on the standard and the offering to meet that standard. If there is a difference in wording or perceived meaning between a mandatory requirement in Section C or Section M, Section C has precedence.

Offerors exceeding the levels specified in the standard may receive additional evaluation points. Offerors providing solutions to functionally stated requirements in Section C that depart from the way a technical standard is worded, but are clearly equal to or superior in approach may also receive additional technical scoring on the factor/subfactor under consideration. Similarly, the government shall not be confined to a strict interpretation of the criteria stated in this section for the award of additional technical points. Additional points may be awarded for any vendor offered feature which is judged to be of significant value to the government. The maximum point levels for item/factor/subfactors are considered internal evaluation methodology and are not available for vendor review.

Offerors' technical proposals must be structured to facilitate the technical evaluation process by providing a cross-reference index to Section C and using the same ordering of Items, Factors, Subfactors, and Standards specified in this section (refer to Paragraph L.1.2.1, Compliance with Mandatory Specifications). References to technical literature provided in vendor standard technical manuals will be reviewed, and Offerors' responses to all standards must be provided within the technical proposal.

M.3.1 Item: Hardware (C.3)

M.3.1.1 Factor: General Requirements (C.3.1)

Mandatory Compliance: Offerors must propose hardware that meets the following general requirements for all categories:

- Augmentation to the initial configuration can be accomplished through methods ranging from the attachment of additional hardware devices to replacement of one hardware device with a compatible device of greater capacity or performance characteristics.

- Any augmentation of equipment proposed to satisfy growth requirements during the systems life shall be transparent to the user and shall not require any modifications to applications software.

- The system shall provide the capability to recover either automatically or manually, or a combination of both from

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hardware failures. This shall include error detection, error location (isolation), recovery procedures and automated (hardware and software supported) error recording/logging.

- Function with the power requirements specified in C.11.1 and provide for protection against power failures or fluctuations outside these ranges. The equipment that is individually connected to a power source must not sustain damage in the event of a power failure or fluctuation.

Features Evaluation:

M.3.1.1.1 Subfactor - Augmentation to Initial Configuration (C.3.1)

Standard: Evaluation will be based upon the upward compatibility of hardware devices through the range of capabilities stated in Figure C-1. Additional points may be awarded for the ease of transition from one device to the next higher category.

M.3.1.1.2 Subfactor - Augmentation to Satisfy Growth (C.3.1)

Standard: Evaluation will be based upon the ease of augmentation to satisfy growth and the degree of transparency to users.

M.3.1.1.3 Subfactor - Recovery from Hardware Failure (C.3.1)

Standard: Evaluation will be based upon the degree of total recovery from hardware failure to include the thoroughness of error detection, location, recovery procedures, and automated error recording. Additional points may be awarded based on the degree of automatic failure detection, reporting, and recovery.

M.3.1.2 Factor: Foreign Languages (C.3.1.1)

Mandatory Compliance: Offerors must propose how they will implement under operator control the entry (via word processing and the VDT/Workstations keyboards), display (on the VDT/Workstation's screens) and print (on the P4, P5, P6 and P7 printers). The display and print of the foreign languages must be in upper and lower case letters (as applicable to the specific language). The foreign languages are as follows:

- French
- Spanish
- German
- Portuguese
- Arabic
- Japanese
- Serbo-Croatian
- Chinese (Mandarin)

Features Evaluation:

M.3.1.2.1 Subfactor - Foreign Language Compatibility (C.3.1.1)

Standard: Evaluation will be based on the degree of compatibility of the equipment and software to the Offerors proposed family of equipment (Figure C-1) and software (Figure C-6). Additional points will be awarded for additional foreign languages being available for use, e.g. Korean, Danish, Swedish, etc.

M.3.1.3 Factor: Central Processing Units (C.3.2)

Mandatory Compliance: Offerors must propose a range of Central Processing Units and describe each configuration of processor components, peripherals, and communications equipment indicating compliance with the following requirements:

- Processor capable of supporting concurrent operation of all local peripheral devices operating at their rated speeds.
- In the event of power failure or fluctuation that falls outside of the equipment's operational range perform a power fail sequence that will allow for an orderly shutdown
- Have sufficient memory to support all variations in concurrent activity execution.
- Have sufficient number of communications ports to enable the concurrent operation of local and remote communications.

Features Evaluation:

M.3.1.3.1 Subfactor - Power Fluctuation/Failure Protection (C.3.2)

Standard: Evaluation will be based on the degree to which the CPU can tolerate electrical fluctuations and continue normal operations with no data loss as well as the ability to orderly shut-down operations in case of a power failure.

M.3.1.3.2 Subfactor - Input/Output (I/O) Channels (C.3.2)

Standard: Evaluation will be based on the Offeror's calculation showing throughput for maximum configurations with additional points provided for provision and ease of channel expansion for unanticipated workload growth.

M.3.1.3.3 Subfactor - Memory (C.3.2)

Standard: Evaluation will be based on the Offeror's memory sizing calculations to provide sufficient memory for processing workload and the ability to expand memory to provide for unanticipated workload growth.

M.3.1.3.4 Subfactor - CPU Modularity (C.3.2)

Standard: Evaluation will be based on the degree of effort required to upgrade a CPU.

M.3.1.3.5 Subfactor - Communications Ports (C.3.2.)

Standard: Evaluation will be based on the Offeror's calculations to provide sufficient communications ports for both local and remote communications and the ability to expand the number of ports to provide for unanticipated workload growth.

M.3.1.4 Factor: Direct Access Storage (C.3.3)

Mandatory Compliance: Offerors must propose a range of compatible direct access storage devices. The required volume requirements are given in terms of the number of characters of application source code and data to be stored and accessible at any point in time. Offerors are responsible for increasing these requirements to provide the following additional requirements:

- Increasing storage for offeror supplied software, file/data base management overhead and other system overhead.

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- Providing sufficient overall data accessibility in support of the workload plus a 50 percent growth over the system life.

Features Evaluations:

M.3.1.4.1 Subfactor - Offeror Provided Storage (C.3.3)

Standard: Evaluation will be based upon the thoroughness of the Offeror's calculation for increased storage (in addition to the stated requirement for application source code/data) including as a minimum Offeror's software, file/data base management overhead, buffer space, etc.

M.3.1.4.2 Subfactor - Growth (C.3.3)

Standard: Evaluation will be based upon the provision for growth, for both user data and software and Offeror's software and overhead.

M.3.1.5. Factor: Printers (C.3.4)

Mandatory Compliance: Offerors must propose a range of printers that meet the following minimum requirements:

- Have a range of rated print speeds per category

- Print all characters of the 95-character FIPS PUB 1-2

- Provide a variety of type fonts for the letter-quality and laser printer

- Provide at least 120 X 180 dots per inch resolution for draft-quality dual mode.

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Features Evaluation:

M.3.1.5.1 Subfactor - Rated Print Speed (C.3.4)

Standard: Evaluation will be based on the offeror's provided range of print speeds. Additional points may be awarded when print speeds exceed the maximum required print speed in each category.

M.3.1.5.2 Subfactor - Printing Graphic Subset of FIPS PUB 1-2 (C.3.4)

Standard: Evaluation will be based on the print clarity of offeror's 95-character subset. Additional points may be awarded for additional printed graphics such as ¢, +, etc.

M.3.1.5.3 Subfactor - Variety of Type Fonts (C.3.4)

Standard: Evaluation will be based on the variety of type fonts provided. Additional points may be awarded for providing more than the minimally required (pica, courier, OCR-A and OCR-B).

M.3.1.5.4 Subfactor - Dual-Mode Printer Resolution (C.3.4.4)

Standard: Evaluation will be based on the resolution offered. Additional points may be awarded for exceeding 120 X 180 dots per inch.

M.3.1.6 Factor: Tape Drives (C.3.5)

Mandatory Compliance: Offerors must propose a range of tape drives that provide a range of speeds.

Feature Evaluation:

M.3.1.6.1 Subfactor - Tape-Drive Speed (C.3.5)

Standard: Evaluation will be based on the offeror's proposed tape-drive speed. Additional points may be awarded for exceeding the maximum speeds required in each category.

M.3.1.7 Factor: Graphics Plotters (C.3.6)

Mandatory Compliance: Offerors must propose a range of graphics plotters that meet the following requirements:

- Provide two categories with a minimum range of number of colors
- Print on 8 1/2 by 11-inch paper

Features Evaluations:

M.3.1.7.1 Subfactor - Number of Colors (C.3.6)

Standard: Evaluation will be based on the offeror's proposed number of colors available in each category. Additional points may be awarded for providing more than the maximum requirements in each category.

M.3.1.7.2 Subfactor - Size Paper (C.3.6)

Standard: Evaluation will be based on the offeror's proposed size paper that the plotter will print on. Additional points may be awarded for being able to print on paper larger than 8 1/2 by 11 inches.

M.3.1.8 Factor: Video Display Terminals (C.3.7)

Mandatory Compliance: Offerors must propose three (3) categories of Video Display Terminals that meet the following requirements:

- Display all of the 95-character subset of FIPS PUB 1-2
- Provide a minimum of 12 user definable/programmable function keys
- Display simultaneously 24 lines of 80 characters each on a minimum screen size of 7 by 9 inches.

Features Evaluation:

M.3.1.8.1 Subfactor - Display Graphics Subset of FIPS PUB 1-2 (C.3.7)

Standard: Evaluation will be based on the display of the 95-character subset. Additional points may be awarded for the display of additional graphics such as ¢, ÷, etc.

M.3.1.8.2 Subfactor - Simultaneous Display of Characters on a Screen (C.3.7)

Standard: Evaluation will be based upon the clarity of display of characters on a screen larger than 7 x 9 inches. Additional points may be awarded for:

a. Providing 132 or more character mode
b. More than 24 lines of at least 80 characters per line
c. Windowing capability
d. Screen color
e. Display controls.

M.3.1.8.3 Subfactor - User Definable/Programmable Function Keys (C.3.7)

Standard: Evaluation will be based on the number of programmable function keys. Additional points may be awarded for exceeding the minimum of 12.

M.3.1.9 Factor: Remote Communications Controllers (C.3.8)

Mandatory Compliance: Offerors must propose a range of Remote Communications Controllers (or provide the functionality integral to the C1 - C6) that provide a high-speed interface between remote locations and the C1 - C6 processors. They must also:

- Be transparent to the nontechnical end user at the workstations
- Provide event reporting of unusual conditions
- Provide a simple point-to-point communications trouble shooting procedure

Features Evaluation:

M.3.1.9.1 Subfactor - Transparency of Use (C.3.8)

Standard: Evaluation will be based upon the transparency of usage by end users at workstations. Additional points may be awarded for ease of operation and reconfiguration of ports by the operators, and flexibility for handling different baud rates.

M.3.1.9.2 Subfactor - Event Reporting (C.3.8)

Standard: Evaluation will be based upon the number and accuracy of event reporting of unusual conditions, and degree of integration with the system monitor and control function.

M.3.1.9.3 Subfactor - Point-to-Point Communications Trouble Shooting (C.3.8)

Standard: Evaluation will be based upon the ease of use and accuracy of troubleshooting procedure.

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M.3.1.10 Factor: Local Area Networks (C.3.9) (Mandatory Option)

Mandatory Compliance: Offerors must propose a range of Local Area Networks with the following capabilities:

- o Allow access to all processors, workstations, and other peripherals within the LAN for sharing data
- o Employ a logical address scheme
- o Be capable of being frequently and easily reconfigured
- o Describe approach to the Engineering Study

Features Evaluation:

M.3.1.10.1 Subfactor - Access to Processors, Workstations and Peripherals (C.3.9)

Standard: Evaluation will be based upon the ease of access that each workstation has to other workstations on the local area network, to all processors and to all peripherals on the network.

M.3.1.10.2 Subfactor - Addressing Capability (C.3.9)

Standard: Evaluation will be based on the ease with which users can transmit their information to the desired recipients and the ease of addition, deletion, and updating addresses.

M.3.1.10.3 Subfactor - Reconfiguration (C.3.9)

Standard: Evaluation will be based upon the methodology involved to reconfigure the LAN and the ease to reconfigure.

M.3.1.10.4 Subfactor - LAN Growth Capability/Flexibility (C.3.9)

Standard: Additional points may be awarded for offered LANS which provide growth and flexibility greater than that specified in Paragraph C.3.9 and C.5.2.

M.3.1.11 Factor: Imaging Systems (C.3.10)

Mandatory Compliance: Offerors must propose an imaging system that meets the following requirements:

- Provide a raster scanner that scans at a maximum rate of 15 seconds per 8 1/2 by 11-inch page
- Provide retrieval of the first image from an on-line image storage media in a maximum of five seconds following identification of images to be retrieved.
- Provide an image resolution of at least 200 dpi for all devices including scanners, terminals and printers.

Features Evaluation:

M.3.1.11.1 Subfactor - Scanner Speed (C.3.10)

Standard: Evaluation will be based on the offeror's proposed scanner speed. Additional points may be awarded for speeds less than 15 seconds per 8 1/2 by 11-inch page.

M.3.1.11.2 Subfactor - Image Retrieval (C.3.10)

Standard: Evaluation will be based on the offeror's proposed image retrieval time from on-line storage. Additional points may be

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awarded for a less than 5-second retrieval following identification of images to be retrieved.

M.3.1.12 Factor: TEMPEST Equipment (C.3.11)

Mandatory Compliance: Offerors must propose TEMPEST equipment that meets NACSIM 5100A and must be certified before delivery of the first TEMPEST system of each configuration to the Government.

Features Evaluation:

M.3.1.12.1 Subfactor - TEMPEST Certification (C.3.11)

Standard: Evaluation will be based on the Offeror's TEMPEST certification status. Additional points may be awarded for proposed equipment that meets the requirements of NACSIM 5100A and is currently certified.

M.3.2 Item: Software

M.3.2.1 Factor: Backup, Program Interrupt, Shutdown and Recovery (C.4.1.1.1, C.4.1.1.2, and C.4.1.1.3)

Mandatory Compliance:

The system must provide the capability to perform orderly system shutdown including detection of component failure and provide a backup, and program interrupt and restart capability.

System recovery procedures must include the ability to:

- Insure integrity of online files during file recovery
- Detect component failure
- Provide degraded operation.

Features Evaluation:

M.3.2.1.1 Subfactor - Backup Software (C.4.1.1.1)

Standard. Submissions will be evaluated in terms of backup capability offered: complete volume and/or partial (files created or modified since a specified date or by individual file); whether system shutdown is required; and the operator expertise required.

M.3.2.1.2 Subfactor - File Recovery (C.4.1.1.1)

Standard: Evaluation will be based on the system's ability to back out incomplete file update series and to signal corrupted files. Additional points may be assigned when these procedures are present, when minimal manual operations or operator intervention is required, and when operator messages are in easily understood English.

M.3.2.1.3 Subfactor - Program Interrupt and Restart (C.4.1.1.2)

Standard: Evaluation will be based upon the capability to interrupt programs at predetermined places in application programs. Program restart capability must be provided. Additional points may be awarded for:

- o Ease of use
- o Options for invoking checkpoint environment save routines
- o Operator control of use.

M.3.2.1.4 Subfactor - Identify Peripheral Errors (C.4.1.1.3)

Standard: Evaluation will be based on the system's ability to log nonrecovery errors and the clarity of error messages.

M.3.2.1.5 Subfactor - Orderly System Shutdown (C.4.1.1.3)

Standard: Evaluation of shutdown procedures will be based on the system's ability to identify failure conditions, produce clear error messages and operator instructions.

M.3.2.1.6 Subfactor - Degraded Mode of Operation (C.4.1.1.3)

Standard: Evaluation will be based upon the ability of the system to operate in a degraded mode and the methodology that must be used to continue operations.

M.3.2.1.7 Subfactor - System Recovery Procedures (C.4.1.1.3)

Standard: Evaluation of system recovery procedures will be based on the degree of operator intervention required and the clarity of operator messages regarding the status of all system resources.

M.3.2.2 Factor: Job Priorities (C.4.1.1.6)

Mandatory Compliance:

- System manager control over total number of job/task slots
- Capability for an interactive terminal user to submit batch jobs within an online session.

Features Evaluation:

M.3.2.2.1 Subfactor - Priority Assignments (C.4.1.1.6)

Standard: Evaluation of priority assignments will be based on the minimum number of steps required to assign priorities, ease of use, and clarity of defaults.

M.3.2.2.2 Subfactor - Processing Priorities (C.4.1.1.6)

Standard: Evaluation will be based on the number of priority categories provided.

M.3.2.3 Factor: System Scheduling (C.4.1.1.7)

Mandatory Compliance: System must have the capability to initiate application execution via a system signal.

Features Evaluation:

M.3.2.3.1 Subfactor - Execution Scheduling (C.4.1.1.7)

Standard: Evaluation will be based on the number of scheduling parameters provided (priority, resource availability, start-up time).

M.3.2.4 Factor: Error Control (C.4.1.1.9)

Mandatory Compliance: The proposed system must provide for:

- Detection of hardware and software errors
- Support of preventive and remedial maintenance.
- Remote diagnostics

Features Evaluation:

M.3.2.4.1 Subfactor - Operator Interface (C.4.1.1.9)

Standard: Evaluation will be based on the ability to detect errors, obtain status information, and the ease of correcting errors.

M.3.2.4.2 Subfactor - Remote Diagnostics (C.4.1.1.9)

Standard: Evaluation will be based upon the ease of use of the remote diagnostics.

M.3.2.5 Factor: System Resource Accountability (C.4.1.1.11)

Mandatory Compliance: The offeror should describe the resource tracking and accountability capabilities of the proposed system. Capabilities required includes the following:

- Resources used
- Accessibility of data collected

Features Evaluation:

M.3.2.5.1 Subfactor - Flexibility (C.4.1.1.11)

Standard: Additional points may be awarded to the Offeror providing the ability to track individual system resources, e.g., a specific DASD, VDT, printer or plotter.

M.3.2.5.2 Subfactor - Data Accessibility (C.4.1.1.11)

Standard: Additional points may be awarded to Offeror who provides an easy to use report generation facility for the resource-usage data collected. Evaluation will be based on the ease of use, ability to select subsets of data for special reports and the ability to obtain "snapshot" views of system activity.

M.3.2.6 Factor: User Command Facility (C.4.1.1.12)

Mandatory Compliance: Offerors must propose a command facility that serves as the user interface to the operating system. Commands must be provided to perform several functions:

- Invoke any system level program
- Obtain help for any command action
- Support a variety of user selected options

Features Evaluation:

M.3.2.6.1 Subfactor - Invoke System Program (C.4.1.1.12)

Standard: Evaluation will be based upon the understandability and ease of use of invoking system level programs and the applicability to all proposed software.

M.3.2.6.2 Subfactor - Help Feature (C.4.11.12)

Standard: Evaluation will be based upon the comprehensiveness of the help feature.

M.3.2.6.3 Subfactor - User Selected Options (C.4.1.1.12)

Standard: Evaluation will be based on the variety and extensiveness of Offeror's provided user selected options and the ease of use.

M.3.2.7 Factor: File Management (C.4.2)

Mandatory Compliance: The offeror must propose software that will support the structures as delineated below:

- Sequential
- Indexed sequential
- Direct (random).

Features Evaluation:

M.3.2.7.1 Subfactor - Sequential, Index Sequential, and Random Files (C.4.2.1)

Standard: Support for sequential, index sequential, and random files will be evaluated in terms of the degree of compatibility with other software tools and languages proposed. File organization capabilities will be assessed including:

- Indexing efficiency
- Capability for overflow, idle space reorganization.

M.3.2.8 Factor: File Development and Maintenance (C.4.2.2)

Mandatory Compliance: Offerors must provide documentation demonstrating compliance with the following requirements:

- File creation/deletion
- File modification including:
    - add, delete, change fields
    - add, delete, change records
    - expand, contract file space
    - signal file space limits being approached
    - multifile volumes
    - multivolume files.

Features Evaluation:

M.3.2.8.1 Subfactor - Ease of Use (C.4.2.2)

Standard: Evaluation will be based on the range of options available for the tools provided. Additional points may be given for a simple, easy to use, consistent user interface and the range of options offered.

M.3.2.8.2 Subfactor - Data Definition (C.4.2.2)

Standard: Evaluation will be based on the Offeror's description of the procedure to be employed in loading or reorganizing a data file across physical volumes and the ease of use.

M.3.2.9 Factor: Library Management (C.4.2.3)

Mandatory Compliance: Offerors must describe the file/library management capabilities of the proposed system. Minimum requirements include:

- Automatic maintenance of directory of mass storage files
- Directory catalog display
- Library listings and modifications
- Provisions for archiving and retrieving.

Features Evaluation:

M.3.2.9.1 Subfactor - File Directory (C.4.2.3)

Standard: Evaluation of directories will be based on the completeness of data maintained (e.g., modification history, description of contents), their accessibility and types of defaults provided.

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M.3.2.9.2 Subfactor - Directory Catalogs (C.4.2.3)

Standard: Evaluation will be based on the completeness and quality of the directory contents, e.g., size, date created, owner.

M.3.2.9.3 Subfactor - Library Listings and Modifications (C.4.2.3)

Standard: Evaluation of libraries will be based on comprehensiveness (modification history, and sizes).

The ease of access and use, including the command structure will also be assessed.

M.3.2.10 Factor: Procedural Languages (C.4.3.1)

Mandatory Compliance: The offeror must propose FORTRAN in compliance with FIPS PUB 69, COBOL in compliance with FIPS PUB 21-1, and BASIC in compliance with FIPS PUB 68, and Assembler.

Features Evaluation.

M.3.2.10.1 Subfactor - COBOL Compiler (C.4.3.1.1)

Standard: The COBOL compiler will be evaluated on the certified level. Additional points may be awarded for providing a level higher than low intermediate.

M.3.2.11 Factor: Text Editor (C.4.3.3.1)

Mandatory Compliance: A general purpose text editor shall be provided for use in creating and editing source programs.

Features Evaluation:

(C12

M.3.2.11.1 Subfactor - Text Editor (C.4.3.3.1)

Standard: The proposed text editor will be evaluated on the comprehensiveness of features provided including the following capabilities:

- Add/delete characters, lines or strings
- Single or global string search with provisions for replacement with different length string
- Optional line sequence/resequence
- Copy within/across files
- Scroll (all directions).

Features which increase user friendliness will also be assessed including: ease of access, command structure, defaults, menus, HELP functions and tutorials.

M.3.2.12 Factor: Screen Formatting (C.4.3.3.2)

Mandatory Compliance: Offerors must provide specifications which demonstrate compliance with the requirements to provide a screen formatting capability that allows for creating and changing formats and field attributes.

Features Evaluation:

M.3.2.12.1 Subfactor - Screen Formatting (C.4.3.3.2)

Standard: Screen formatting capabilities will be evaluated on their comprehensiveness and ease of use. Additional points may be assigned to those capabilities offering the following:

- Facility for automatic field edits
- Ease of access and use (command structure, defaults, menus, tutorials).

M.3.2.13 Factor: Menu Building and Revision (C.4.3.3.4)

Mandatory Compliance: Offerors must provide specifications which demonstrate software tools that assist in creating and revising application menus.

Features Evaluation:

M.3.2.13.1 Subfactor - Menu Building and Revision (C.4.3.3.4)

Standard: Menu building capability will be evaluated on the ease with which it can be used, and user assistance features (defaults, command structure).

M.3.2.14 Factor: Debug and Test Aids (C.4.3.3.5)

Mandatory Compliance: Offerors must provide test and debugging aids to assist in program development.

Features Evaluation:

M.3.2.14.1 Subfactor - Ease of Use (C.4.3.3.5)

Standard: Debug and test aids will be assessed on general ease of use including: ease of access, command structure, defaults, menus, and tutorials.

M.3.2.15 Factor: Query Language (C.4.4.1)

Mandatory Compliance: Offerors must describe the data access capabilities of the proposed system. Minimum requirements are shown below:

- Access multiple files

- Provide ad hoc query capability.

Features Evaluation:

M.3.2.15.1 Subfactor - Query Capability (C.4.4.1)

Standard: Proposed query capability will be evaluated in terms of the extent of features offered and the degree of user friendliness. Features include: number and types of access keys, Boolean selection, reporting options, flexibility, macro capability and interface with report generation subsystem or other proposed software. User friendliness will be assessed by reviewing the command structure, defaults, menus and HELP features.

M.3.2.15.2 Subfactor - Query, Application Interface (C.4.4.1)

Standard: Additional points may be given for both of the following functional capabilities:

- Ability to call query language commands from within procedural language application code

- Ability to call procedural language routines from query language commands.

M.3.2.16 Factor: Report Generator (C.4.4.2)

Mandatory Compliance: The offeror must propose a report generator capability to:

- Access different file structures/formats to combine data and specify reports

- Sort (Alphanumeric, numeric or alpha key)

- Merge using multiple data sources

- Perform basic math calculations (sums, averages, minimum/maximum)

Features Evaluation:

M.3.2.16.1 Subfactor - Sort (C.4.4.2)

Standard: Sort capability will be evaluated in terms of the number of sort keys or groups provided and the ease with which sorting can be accomplished.

M.3.2.16.2 Subfactor - Merge (C.4.4.2)

Standard: Additional points may be awarded to Offerors with full scale merge capabilities including:

- Top down
- Left to right
- Common variables matching.

M.3.2.16.3 Subfactor - Mathematical Calculations (C.4.4.2)

Standard: Evaluation will be based on the range of functions available and the simplicity with which mathematical calculations can be accomplished.

M.3.2.16.4 Subfactor: User Interface, Facilities (C.4.4.2)

Standard: Proposals will be evaluated on the user friendliness of file access procedures, and the inclusion of useful defaults, menus, and HELP features.

M.3.2.17 Factor: Graphics (C.4.4.3)

Mandatory Compliance: Offerors must provide graphics software to support the proposed graphics devices (plotters, and W1 and W3 workstations) with at least the following features:

- An on-line help facility or menu-driven interface for HELP
- Change resolution of chart to match resolution of graphics displays, printers, and plotters.
- Integrate user-defined legends and commentary

Features Evaluation:

M.3.2.17.1 Subfactor - On-Line Help Facility or Menu Driven Interface for HELP (C.4.4.3)

Standard: Evaluation will be based on the thoroughness of the on-line help facility or menu-driven interface for HELP.

M.3.2.17.2 Subfactor - User-Defined Legends and Commentary (C.4.4.3)

Standard: Evaluation will be based on the ease of incorporating user-defined legends and commentary. Additional points may be awarded for no restrictions and also for the number of character fonts available.

M.3.2.17.3 Subfactor - Change Resolution (C.4.4.3)

Standard: Evaluation will be based on the capability to change the resolution of a chart to match resolution of graphics displays, printers, and plotters.

M.3.2.18 Factor: Database Management System (C.4.4.4)

Mandatory Compliance: Offerors must propose an integrated database management system (DBMS) with at least the following features:

- Database definition facility
- Data manipulation/host language interface
- Database Backup and Recovery
- Command/Query Language

Features Evaluation:

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M.3.2.18.1 Subfactor - Database Definition (C.4.4.4.1)

Standard: Evaluation will be based upon the readability of English-like commands to define the entities, and the thoroughness of the data definitions diagnostics. Additional points may be awarded for the ability to have larger data record lengths than 256 characters.

M.3.2.18.2 Subfactor - Data Manipulation Language (C.4.4.4.2)

Standard: Evaluation will be based upon the ease of interface to the DBMS from a host language. Additional points may be awarded for high-level language interface in addition to COBOL.

M.3.2.18.3 Subfactor - Database Backup and Recovery (C.4.4.4.7)

Standard: Evaluation will be based upon the ease and thoroughness of the recovery action with minimal user interaction.

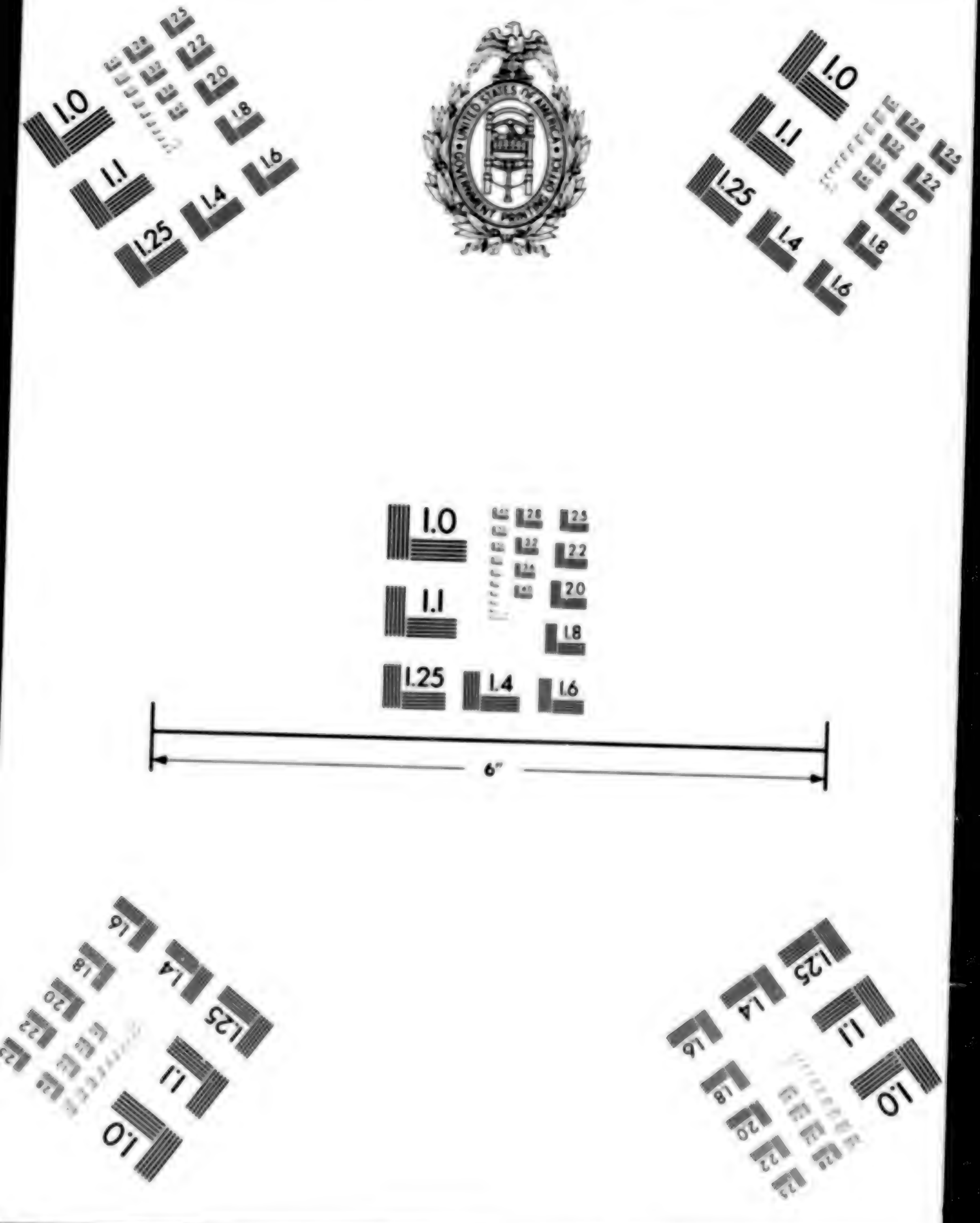
M.3.2.18.4 Subfactor - Command/Query Language (C.4.4.4.8)

Standard: Evaluation will be based upon the readability of English-like commands/queries and additional features offered.

M.3.2.19 Factor: Word Processing (C.4.4.5)

Mandatory Compliance: Offerors must propose word processing software with the capabilities to:

- Prepare and edit FIPS PUB 1-2 character set and use characters which when printed will be the special character VV .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- Automatic maintenance of a document directory
- Capability to rename, merge and delete documents
- Ability to store and integrate text with formats
- Ability to copy partial/entire text from one document into the document being created/revised
- Maintenance of footnote format integrity
- Automatic index generation capability based on user-flagged index items
- Automatic table of content generation capability based on user-flagged or system generated headings.
- Stored commands for word processing
- Support "If" tests and nested "Ifs"

Features Evaluation:

M.3.2.19.1 Subfactor - Prepare and Edit Character Set (C.4.4.5)

Standard: Evaluation will be based on the offeror's proposed character set plus the special character YY. Additional points may be awarded for additional special characters such as ¢.÷ , etc.

M.3.2.19.2 Subfactor - Document Directory (C.4.4.5)

Standard: Evaluation will be based upon the ability to access subsets by user selected criteria.

M.3.2.19.3 Subfactor - Rename, Merge and Delete Documents (C.4.4.5)

Standard: Evaluation will be based upon the ease (i.e., minimal number of keystrokes) for renaming, merging and deleting documents.

M.3.2.19.4 Subfactor - Store Integrated Text and Formats (C.4.4.5)

Standard: Evaluation will be based upon the ease (i.e. minimal number of keystrokes) to store integrated text and formats.

M.3.2.19.5 Subfactor - Copy Text From One Document to Document Being Worked On (C.4.4.5)

Standard: Evaluation will be based upon the ease (i.e. minimal number of keystrokes) to copy partial/entire text from one document into the document being created/revised.

M.3.2.19.6 Subfactor - Footnote Integrity (C.4.4.5)

Standard: Evaluation will be based on the offeror's flexibility in use of footnotes. Additional points may be awarded for automatically renumbering of the footnotes, when deletions or additions occur, automatic footnote tie-in (i.e., footnote automatically travels with its corresponding text when the text is moved to another page) and the capability to carry a footnote over to another page.

M.3.2.19.7 Subfactor - Automatic Index Generation (C.4.4.5)

Standard: Evaluation will be based on the Offeror's ease of automatic index generation. Additional points may be awarded for providing the ability to index by keywords and for the number of keywords that can be used.

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M.3.2.19.8 Subfactor - Automatic Table of Contents (C.4.4.5)

Standard: Evaluation will be based upon the ease of automatic table of contents generation. Additional points may be awarded for a greater number of paragraph numbering levels and paragraph numbering schemes.

M.3.2.19.9 Subfactor - Stored Commands for Word Processing (C.4.4.5.1)

Standard: Evaluation will be based upon the ease of using the stored commands function. Additional points may be awarded for having the function integrated (that is, not having to shift from word processing).

M.3.2.19.10 Subfactor - "If" Tests (C.4.4.5.1)

Standard: Evaluation will be based upon the number of "If" levels supported.

M.3.2.20 Factor: Electronic Mail (C.4.4.6)

Mandatory Compliance: Offerors must provide electronic mail software with the ability to transmit messages intra and inter system with the following capabilities:

- Ability to send messages consisting of files produced by the word processing subsystem
- Ability to receive messages without the active participation of the receiving user

- o Provide an electronic directory of users, including mailing/distribution list containing up to 500 addressee groups with a minimum of 50 addresses in each group.

Features Evaluation:

M.3.2.20.1 Subfactor - Transmit Word Processing File (C.4.4.6)

Standard: Evaluation will be based upon the ease/transparency of transmitting word processing files. Additional points may be given for having the function integrated within the electronic mail software; i.e., not having to exit the electronic mail software to transmit a file.

M.3.2.20.2 Subfactor - Receipt of Messages (C.4.4.6)

Standard: Evaluation will be based upon the transparency to the receiving user of an incoming message. Additional points may be given for a background message on the screen to tell the user that there is a message to be read.

M.3.2.20.3 Subfactor - Electronic Directory Capacity (C.4.4.6)

Standard: Evaluation will be based upon the capacity of the directory. Additional points may be awarded for the ability to have more than 500 addressee groups of 50 addresses per group.

M.3.2.21 Factor: Electronic Spreadsheet (C.4.4.7)

Mandatory Compliance: Offerors must provide an electronic spreadsheet capability with the following capabilities:

- o Ability to build and edit models with up to 50,000 cells.

- Ability to automatically interchange data files with the DBMS files; sequential, and indexed sequential files; the graphics subsystem from spreadsheet; and the word processing system from the spreadsheet.

Features Evaluation:

M.3.2.21.1 Subfactor - Model Capacity (C.4.4.7)

Standard: Evaluation will be based upon the capacity of the model. Additional points may be awarded for allowing more than 50,000 cells.

M.3.2.21.2 Subfactor - Interchange of Files (C.4.4.7)

Standard: Evaluation will be based on the ease of interchanging files. Additional points may be given for not having to exit from the requesting software package.

M.3.2.22 Factor: Electronic Calendaring/Scheduling (C.4.4.8)

Mandatory Compliance: Offerors must provide an electronic calendaring/scheduling subsystem with the following capabilities:

- Schedule meetings and resources
- Serve as a reminder device or tickler file for key events on critical dates.

Features Evaluation:

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M.3.2.22.1 Subfactor - Scheduling Meetings and Resources (C.4.4.8)

Standard: Evaluation will be based on the ease of scheduling meetings and/or resources. Additional points may be allowed for the transparency of the scheduling between schedulers and those being scheduled.

M.3.2.22.2 Subfactor - Reminder Device/Tickler File (C.4.4.8)

Standard: Evaluation will be based upon the mode of reminding or the use of the tickler file. Additional points may be awarded for a background message on the screen to remind users of pending events.

M.3.2.23 Factor: Electronic Filing (C.4.4.9)

Mandatory Compliance: Offerors must provide an electronic filing subsystem for the storing and retrieving of information electronically with the following capabilities:

- An interface to word processing, electronic mail and text storage and retrieval

Features Evaluation:

M.3.2.23.1 Subfactor - Interface to Other Subsystems (C.4.4.9)

Standard: Evaluation will be based upon the ease of filing and retrieval of material produced by word processing and electronic mail. Additional points may be awarded for not having to exit from the software originating the material to be filed.

M.3.2.24 Factor: Image Processing (C.4.4.10)

Mandatory Compliance: Offerors must propose Image Processing software with at least the following capabilities:

- Provides interface with the Offeror's proposed word-processing and graphics software
- Provides accurate and efficient control of image movement to and from storage media to requesting devices

Features Evaluation:

M.3.2.24.1 Subfactor - Word-Processing and Graphics Interface with Image Processing (C.4.4.10)

Standard: Evaluation will be based upon the ease of integrating data from word processing and graphics software with image processing software.

M.3.2.24.2 Subfactor - Image Movement (C.4.4.10)

Standard: Evaluation will be based upon the ease with which the images may be moved from storage to a requesting device (i.e. terminal or printer).

M.3.2.25 Factor: Statistics (C.4.4.11)

Mandatory Compliance: Offerors must provide statistics software that is capable of accessing multiple files and databases to perform at least the following features:

- Run and solve simultaneous equations
- Perform statistical analyses
  a. Linear and nonlinear regressions
  b. Time series analyses with seasonal adjustments
  c. Measures of central tendency (mean, median)
  d. Measures of dispersion (standard deviation, variance)
  e. Correlation techniques
  f. Curve fitting
  g. Variance, co-variance matrix
  h. Cross tabulations (chi square test)
  i. Factor and discriminant analysis.

Features Evaluation:

M.3.2.25.1 Subfactor - Analyses (C.4.4.11)

Standard: Evaluation will be based upon the ability to perform functions in addition to C.4.4.11a through i.

M.3.2.26 Factor: Data/Document/File Transfer (C.4.4.12)

Mandatory Compliance: Offerors must provide an electronic data/document/file transfer capability between users in a LAN, between separate users and a remote location, between C1-C6 and a W1, between C1-C6 and another C1-C6, and between W1s. The transfer must have the following characteristics:

- Be transparent to the user transmitting and the user receiving

- Transmit and receive source/object code, word processing, electronic spreadsheet, DBMS files, etc.

Features Evaluation:

M.3.2.26.1 Subfactor - Transparency (C.4.4.12)

Standard: Evaluation will be based upon the degree of transparency. Additional points may be awarded for allowing the user transmitting and the user receiving to be able to perform other functions on the workstation.

M.3.2.27 Factor: W1 Software Requirements (C.4.6)

Mandatory Compliance: Offerors must provide commercially available software that is fully documented and supported; provides easy to use prompts, menus or HELP facilities; supports data exchange among other W1 software packages and C1 through C6 applications programs; can be installed by a non-technical user; and supports the W1 peripheral hardware. In addition to Word Processing and the MS-DOS Operating System, Offerors must propose software to operate in the following categories:.

a. Utility programs
b. Spreadsheets
c. Statistics
d. Graphics
e. Communications
f. Database management systems
g. Office automation functions (calendar, mail, filing)

Features Evaluation:

M.3.2.27.1 Subfactor - Additional W1 Software (C.4.6.3)

Standard: Evaluation will be based upon the number of software applications from Figure C-6, Section C, which are offered in addition to the mandatory optional software listed in C.4.6.3.

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M.3.2.27.2 Subfactor - Word Processing (C.4.6.1)

Standard: The proposed W1 word-processing package will be evaluated for the number of the requirements provided that are contained in Paragraph C.4.4.5.

Features Evaluation:

M.3.3 Item: Operational Requirements (C.5)

M.3.3.1 Factor: Security (C.5.1)

Mandatory Compliance:

Many of the Security requirements may be met if the Offeror's proposed operating system meets the ORANGE BOOK C2 requirements; however, there are additional security requirements that the ORANGE BOOK does not address. The Offeror must state a commitment to have a B2 certified operating system by year 4 of this contract.

M.3.3.1.1 Subfactor - Status in the Certification Process

Standard: The status of the Offeror's proposed operating system in the certification process will be evaluated and additional points may be awarded for being in the Formal Product Evaluation stage or having certification.

M.3.3.1.2 Subfactor - Security Level Being Sought or Certified

Standard: The level of Trusted Computer System Certification being sought or certified for the proposed operating system will be evaluated and additional points may be awarded for levels higher than C2.

M.3.3.2 Factor: Communications Requirements (C.5.2)

Mandatory Compliance: Offerors shall provide sufficient communications capability to enable concurrent operation of local and remote workstations, peripheral devices, and processors as specified in Paragraph C.5.2.

Features Evaluation:

M.3.3.2.1 Subfactor - Local Interconnection (C.5.2.2.2)

Standard: Evaluation of the three local area interconnection configurations defined in Paragraph C.5.2.2.2 will be based on the ease of configuration and transparency to the user and application software.

M.3.3.2.2 Subfactor - Local Area Network Protocols (C.5.2.3.1)

Standard: Evaluation will be based on the degree of flexibility available to the Government regarding use of the Local Area Network (LAN) and the cost effectiveness of adding special equipment and functions in the future.

M.3.3.2.3 Subfactor - LAN Security Provisions (C.5.2.3.3)

Standard: The evaluation will be based on the current status of the Offeror's LAN certification to operate in a TS System High Security mode and the status of the Offeror's participation in the CCEP as specified in Paragraph C.5.2.3.3.

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M.3.3.2.4 Subfactor - LAN Performance (C.5.2.3.4)

Standard: The evaluation will be based on the documented evidence that the LAN can meet and exceed the performance requirements specified in Paragraph C.5.2.3.4.

M.3.3.2.5 Subfactor - Engineering Study (C.5.2.3.5)

Standard: Evaluation will be based upon the thoroughness and logical approach of the proposed engineering study methodology.

M.3.3.2.6 Subfactor - External Interfaces (C.5.2.4)

Standard:

a. The evaluation will be based on the ease of configuration and address maintenance, and for the transparency to the application software and the user.

b. The evaluation will based on the ease of configuring the communications for the five-year transition to full implementation of the DOSTN for world-wide communications.

c. The evaluation will be based on the architecture of the total system and how transparent the lower level protocols and connectivity are to the upper level protocols and the user.

M.3.3.2.7 Subfactor - File Transfer (C.5.2.4.3)

Standard: Evaluation will be based on the ease of use and uniformity of the total system architecture with respect to file transfer from one workstation/processor to another and the transparency to the application software and the user for the different transmission paths and types of devices. For example, file transfer to another processor might be performed the same way (from the user's viewpoint) as transferring that same file to a printer, or to another workstation in another part of the world.

Evaluation will also be based on efficiency of error recovery and retransmission, and assurance that data will arrive reliably in sequence, regardless of what intermediate processors may have been down, and what rerouting had to occur.

M.3.3.2.8 Subfactor - System Monitor and Control (C.5.2.5)

Standard: The evaluation will be based on the completeness, uniformity of structure and user interface, efficiency, and ease of use of the System Monitor and Control Functions.

Additional points may be awarded for the degree to which the electronic mail directories function as if they were the same as the user directories for access to each processor.

The evaluation will be based on the ease of use and completeness of the remote diagnostic capability, the clarity of the indicators of status of each system and its current administrator, operator, and network manager.

M.3.4 Item: Management Plan (Section J, Attachment X)

M.3.4.1 Factor: Installation Plan

Mandatory Compliance: The Installation Plan must describe in detail:

- Site preparation requirements

- Hardware, software and communications testing
- System optimizing by site
- On-site assistance, or "hot-line" telephone.

Features Evaluation:

M.3.4.1.1 Subfactor - Site Preparation Description

Standard: Evaluation will be based upon the thoroughness of offeror's site preparation description, to include: physical requirements (power requirements, temperature/humidity control, square footage required, access door sizes, physical security and safety requirements); preparation of a diagram which pictorially displays the location of all equipment components to include the location of electrical connections, type outlets required and dedicated circuit requirements; and, provisions to coordinate with the Department of State, or other user agency, to ensure that site specific requirements are identified and made known to the agency involved.

M.3.4.1.2 Subfactor - Installation Testing

Standard: For evaluation purposes, the proposal must describe all aspects of equipment, software and communications testing that will be accomplished prior to turnover to Government personnel.

M.3.4.1.3 Subfactor - Site Specific Optimization

Standard: Proposal must describe the plans and specific layout, user utilization, tools and procedures for systems tuning that must be considered in providing for optimum throughput.

M.3.4.1.4 Subfactor - Technical Assistance

Standard: Proposal must insure that Government personnel will have vendor technical assistance readily available immediately after the system is turned over to them. The evaluation will also assess the comprehensiveness of the proposed technical assistance, and the degree of availability.

M.3.4.2 Factor: Contingency Plan

Mandatory Compliance: The Contingency Plan must include:

- o Unforeseen occurrences, e.g., equipment/software non-arrival, arrival in damaged condition, or failures
- o Procedures to be taken when downtime exceeds that specified in Figure F-1

Features Evaluation:

M.3.4.2.1 Subfactor - Plan of Action

Standard: Evaluation will be on the degree of authority that the person on the Offeror's staff will have to resolve problems, and on clear and direct procedures for resolution of unforeseen problems.

M.3.4.3 Factor: Equipment Maintenance Plan

Mandatory Compliance: The Equipment Maintenance Plan must describe in detail:

- o Remedial maintenance
- o Preventive maintenance
- o Monitoring of maintenance service.

Features Evaluation:

M.3.4.3.1 Subfactor - Geographically Dispersed Remedial Maintenance Availability

Standard: Evaluation will be based on the Offeror's plan and ability to provide remedial maintenance within the response times specified in Figure C-9 of Section C. Additional points may be awarded for providing better response times.

M.3.4.3.2 Subfactor - Geographically Dispersed Preventive Maintenance Availability

Standard: Evaluation will be based on the Offeror's plan and ability to provide preventive maintenance for all installed equipment at all locations with a description of specific devices and schedules.

M.3.4.3.3 Subfactor - "Home" Office Participation in Maintenance Effort

Standard: Evaluation will be based on the offeror's commitment of "Home" office involvement and awareness of maintenance problems and follow-up for prompt resolution of problems.

M.3.4.4 Factor: Training Plan

Mandatory Compliance: The Training Plan must describe in detail:

- Training to be conducted throughout the systems life
- Training syllabus and lesson content, duration and materials provided.

Features Evaluation:

M.3.4.4.1 Subfactor - Geographically Dispersed Training Availability

Standard: Evaluation will be based on the Offeror's experience in providing training at United States and other worldwide locations.

M.3.4.4.2 Subfactor - Lesson Design and Content

Standard: Evaluation will be based on the extent to which an Offeror's description demonstrates a logical grouping of subjects, clear description of contents, consideration of varying levels of experience, appropriate materials to be made available, and a precise lesson objective.

M.3.4.4.3 Subfactor - Quality of Instruction

Standard: Evaluation will be based on the quality review and selection of instructors based on experience in teaching the subjects proposed, and the appropriateness and thoroughness of the course evaluation process to provide for follow-up and improvement(s).

M.3.4.5 Factor: Technical Assistance Plan

Mandatory Compliance: The Technical Assistance Plan must describe in detail:

- Technical assistance to be provided throughout the world during the systems life

- Type support provided to include the qualifications and types of personnel and their relationship to the Offeror (i.e., direct payroll, subcontractor, distributor, etc.).

Features Evaluation:

M.3.4.5.1 Subfactor - Geographically Dispersed Technical Assistance Availability

Standard: Evaluation will be based on the Offeror's ability to provide technical assistance at all locations throughout the contract.

M.3.4.5.2 Subfactor - Quality of Technical Assistance to be Provided

Standard: Evaluation will be based on the qualifications and types of proposed personnel and the relationship (i.e., direct payroll, subcontractor, exclusive distributor, distributor, representative, etc.) to the Offeror.

M.3.4.6 Factor: Documentation and Technical Information Plan

Mandatory Compliance: The Documentation and Technical Information Plan must describe:

- Documentation and Technical Information to be provided
- Updating of Documentation and Technical Information.

Evaluation Features:

M.3.4.6.1 Subfactor - Manual and Publication Design and Content

Standard: The extent to which the Offeror's description demonstrates a logical grouping of subjects, and the manuals are written in easily understood English will be assessed. Sample manuals must be provided to demonstrate clarity.

M.3.4.6.2 Subfactor - Manual and Publication Revision Process

Standard: The extent to which the Offeror's description demonstrates a quality process that provides for review and revision to correct errors noted by users, and updating to reflect software revisions will be evaluated. Additional points may be awarded for making revisions and updates electronically available for users to print on-site.

M.3.4.7 Factor: Software Support Plan

Mandatory Compliance: The Software Support Plan must describe:

- Problem resolution
- Monitoring of software problems.

Features Evaluation:

M.3.4.7.1 Subfactor - Geographically Dispersed Software Support Availability

Standard: Evaluation will be based on the Offeror's ability to provide software support for all locations to include problem reporting, verification, resolution and promptness of revisions.

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M.3.4.7.2 Subfactor - "Home" Office Awareness of Software Problems

Standard: Evaluation will be based on the Offeror's procedures for maintaining awareness and involvement in software problems and follow-up for prompt resolution of problems, and notification to the Department of State and other User Agencies of known software problems.

M.3.5 Item: Configuration Management (Section J, Attachment V

M.3.5.1 Factor: Configuration Management Responsibilities

Mandatory Compliance: The proposal must describe how the Offeror will fulfill responsibilities in Configuration Management for:

- Providing a VENDOR counterpart
- Identifying and documenting configuration components
- Providing status reports.
- Order status and shipping database

Features Evaluation:

M.3.5.1.1 Subfactor - High-Level Authority in Vendor's Organization

Standard: Evaluation will be based on the extent that the Offeror's named VENDOR counterpart has authority to represent and speak for the VENDOR at Configuration Management Control Board (CMCB) meetings and who has authority to take corrective actions, where required, and to monitor installations.

M.3.5.1.2 Subfactor - Baseline Configuration Identification

Standard: Evaluation will be based on the thoroughness of Offeror's description of how the configuration components, that are identified as VENDOR responsibilities, will be identified, recorded and updated, and on the availability of that data to the Department of State Program Manager.

M.3.5.1.3 Subfactor - Monitoring the Geographically Dispersed Installations and Operations

Standard: Evaluation will be based on the methodology that the appointed VENDOR counterpart will employ to keep the Department of State Program Manager aware of the status of installation and on-going operational problems.

M.3.5.1.4 Subfactor - Ordering Status and Shipping Database

Standard: Evaluation will be based on the thoroughness of the data base design, the Offeror's proposed update schedule, and the accessibility of the database with additional points being awarded for user's being able to download their applicable data to their own systems.

M.3.6 Item: Corporate Qualifications (L.1.2.5)

M.3.6.1 Factor: Corporate Experience

Mandatory Compliance: Offerors must submit at least three (3) references that show for Offeror's firm and each subcontractor (if subcontractors are used) the following:

- o Government agency or commercial company
- o Contracting Officer's name and Contracting Officer's Technical Representative name and telephone number
- o Contract number
- o Brief description of work performed
- o Contract value.

Features Evaluation:

M.3.6.1.1 Subfactor - Geographically Dispersed Contract Administration

Standard: The Offeror's ability to manage installations, equipment and software maintenance, training, and promptness of problem resolution will be assessed.

M.3.6.1.2 Subfactor - Subcontractor Plan

Standard: The Offeror's plan to obtain responsiveness from proposed subcontractors (and each must be identified) will be assessed.

M.4 WEIGHTED TECHNICAL CAPABILITY EVALUATION CRITERIA IN SUPPORT OF SECTION CC

The technical portion of the evaluation will employ an "item, factor, standard" method to determine points to be awarded. The following major evaluation areas have been designated as "items":

- o Corporate Conversion Experience
- o Conversion Support Facilities
- o Phase I Requirements

- Phase II Requirements
- Phase III Requirements

Pertinent corporate experience factors and requirements as set forth in Section CC that are to be evaluated in this phase of the evaluation process are summarized under each item. The factors by which these items are to be evaluated are then listed. Specific standards are provided to guide point award against each factor. Where required, complex factors are divided into subfactors, and standards are applied to each subfactor.

The evaluation items and factors/subfactors which will be rated in this phase of the evaluation process are listed below. Offerors are required to respond to each factor/subfactor listed with, as a minimum, the information requested in the standard associated with that factor/subfactor.

For evaluation purposes, the items and factors/subfactors have been weighted based on their relative importance. Offerors meeting or exceeding the levels specified in the standard will receive additional evaluation points. Offerors providing solutions to functionally stated requirements in Section CC that depart from the way a technical standard is worded, but are clearly equal to or superior in approach shall also receive additional technical scoring on the factor/subfactor under consideration. Similarly, the government shall not be confined to a strict interpretation of the criteria stated in this section for the award of additional technical points. Additional points may be awarded for any vendor offered feature which is judged to be of significant value to the government. The maximum point levels for item/factor/subfactors are considered internal evaluation methodology and are not available for vendor review.

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Offerors' technical proposals must be structured to facilitate the technical evaluation process by providing a cross-reference index to Section CC and using the same ordering of items, factors, subfactors, and standards specified in this section. Offerors responses to all standards must be provided within the technical proposal. (Refer to Paragraphs L.1.3.1 and L.1.3.2 of this Solicitation).

If there is a difference in wording or perceived meaning between a mandatory requirement in Section CC or Section M, Section CC has precedence.

M.4.1 Item: Corporate Conversion Experience and Current Capability

Mandatory Compliance: The Offeror must demonstrate and provide evidence of its ability to manage, staff, organize and execute projects similar in scope and complexity to this solicitation.

Features Evaluation:

M.4.1.1 Factor: Demonstrated Corporate Management and Technical Experience on Similar Projects

Standard: Evaluation will be based on the Offeror's ability to demonstrate that it has successfully executed conversion projects of similar scope and complexity to the conversion requirements of this solicitation. The Government's evaluation of corporate conversion project management and technical experience will be based on summaries provided by the Offeror, and by Government follow-up with specified contractual and technical contacts of project personnel provided in the project summaries.

M.4.1.2 Factor: Conversion Organization and Staffing

Standard: Evaluation will be based on the Offeror's ability to demonstrate its understanding of the project management organization and staffing quantities/skill levels required by this solicitation. The Government's evaluation will assess the Offeror's understanding of the management aspects of the conversion effort, including the quality (i.e., quantity and skill levels) of the Offeror's proposed personnel.

M.4.2 Item: Conversion Support Facilities (CC.5)

Mandatory Compliance: The Offeror must thoroughly describe the proposed conversion support facilities, and where required, provide supporting documentation and technical references.

Features Evaluation:

M.4.2.1 Factor: Conversion Tools/Aids (CC.5.1)

Standard: Evaluation of conversion tools/aids will be based on the following:

- Descriptions of tools/aids
- User manuals/guides
- References

M.4.2.2 Factor: Software Configuration Management System (CC.5.2)

Standard: The Offeror's proposed software configuration management system shall be provided in the Offeror's proposal as Section 6 of the Draft Master Conversion Plan (refer to Section CC, Subsection

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CC.4.1 and Paragraph CC.6.2.5, and Attachment XIV). Evaluation will be based on the following attributes of the system:

- o Appropriate for use with respect to the current environment system categories (defined in Section CC, Subsection CC.2).
- o Flexible and adaptable to changes in software configuration management methodology, requirements or objectives.
- o User friendliness.
- o Capable of interacting with the proposed work package monitoring and tracking system (WPMTS), where required.
- o Support the Offeror's proposed software configuration management plan (required in Section CC, Subsection CC.4.1).

M.4.2.3 Factor - Work Package Monitoring and Tracking System (CC.5.3)

Standard: Evaluation of the proposal Work Package Monitoring and Tracking System (WPMTS) will be based on:

- o User friendliness.
- o Capability of interacting with the proposed automated Software Configuration Management System (SCMS), when required.
- o Availability of a WPMTS User's Guide/Manual.
- o Provision of names and telephone numbers of individuals who can attest to the successful use of the proposed WPMTS.

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M.4.2.4 Factor - Development System Requirements (CC.5.4)

Standard: The Vendor proposal must provide for the installation of development site equipment in accordance with Section CC.5.4. If any other approach to supporting this requirement is proposed, it will be evaluated for technical adequacy and overall feasibility.

M.4.3 Item: Phase I Requirements (CC.6)

M.4.3.1 Factor: Orientation Requirements (CC.6.1)

Standard: Evaluation will be based on the vendor's overall understanding of the orientation process and on the reasonableness of the orientation information requested by the Offeror.

M.4.3.2 Factor: Master Conversion Plan Requirements (CC.6.2)

Mandatory Compliance: The Offeror must demonstrate its understanding of the Master Conversion Plan (MCP) requirements.

Features Evaluation:

M.4.3.2.1 Subfactor: Conversion Approach/Definition and Guidelines (CC.6.2.2)

Standard: The proposed conversion approach(es) and implementation guidelines must accomplish the Government's objectives as stated in CC.6.2.2 and Section J, Attachment XIV, Section 3. Evaluation of the approach(es) will be based on the following:

o Feasibility of implementation (i.e., management and technical)

- Technical efficiency (i.e., with respect to each of the Government's objectives as stated in Attachment XIV, draft MCP Section 3)

- Management benefits (i.e., management efficiency and risk reduction/control)

M.4.3.2.2 Subfactor: QA Plan and Implementation Guidelines (CC.6.2.3)

Standard: Evaluation of the QA plan and guidelines will be based on the following:

- Feasibility of implementation (i.e., with respect to the Government's planned project approach and project management approach)

- Appropriateness (i.e., with respect to generally accepted quality assurance standards and practices)

M.4.3.2.3 Subfactor: User Training Plan and Implementation Guidelines (CC.6.2.4)

Standard: Evaluation of the user training plan and guidelines will be based on the following:

- Feasibility of implementation (i.e., with respect to the Government's planned project approach and each Offeror proposed conversion approach)

- Appropriateness (i.e., with respect to generally accepted training standards and practices)

M.4.3.2.4 Subfactor: Software Configuration Management Plan (CC.6.2.5)

Standard: Evaluation of the Software Configuration Management Plan will be based on the following:

- o Management ease of use (i.e., steps required to control and monitor the plan).
- o Responsiveness to the needs of the various project levels (MCP, GCP, and SCP).
- o Responsiveness to the tracking and change control needs on standard development systems (refer to CC.2 and Attachment XIV, MCP Section 6.)

M.4.3.2.5 Subfactor: GCP Development Procedures (CC.6.2.6)

Standard: Evaluation will be based on the method(s) proposed to determine conversion requirements at the group level.

M.4.3.2.6 Subfactor: SCP Development Procedures (CC.6.2.7)

Standard: Evaluation will be based on the method(s) proposed to determine conversion requirements and conduct conversion planning at the site level.

M.4.3.2.7 Subfactor: Contractor Management Process (CC.6.2.10)

Standard: Evaluation will be based on the following:

- o Adequacy of the proposed Contractor organization with respect to the Government's project management organization.

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- Responsiveness to the Government's project approach.
- Effectiveness and appropriateness of the roles and responsibilities assigned to the Offeror's staff at the various project levels.

M.4.3.2.8 Subfactor: Government Participation (CC.6.2.11)

Standard: The proposed Government staffing plan must provide an effective and efficient approach for the management of the conversion effort. Evaluation will be based on the following:

- Responsiveness to the Government's project approach.
- Effectiveness and appropriateness of the roles and responsibilities suggested for the Government's staff at the various project levels.

M.4.3.2.9 Subfactor: GCP Review Process (CC.6.2.12)

Standard: Evaluation will be based on the following:

- Adequacy of the procedures to be used for GCP review and approval.
- Adequacy of the procedures proposed to establish and update Government and Contractor resource requirements, allocation, and status monitoring.

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M.4.3.2.10 Subfactor: Conversion Task Packages (CC.6.2.13)

Standard: The proposed conversion task packages (CTPs) must provide adequate and reasonable conversion task descriptions for each proposed conversion approach. These descriptions should provide sufficient detail to show how each task in Attachment XII is satisfied by the Offeror's conversion methodology.

M.4.3.2.11 Subfactor: Site Conversion Plan Costing Guidelines (CC.6.2.14)

Standard: Within each proposed conversion approach, the proposed SCP pricing guidelines must provide a consistent and systematic approach to formulate firm-fixed-price quotations for site conversions. Evaluation will be based on the adequacy, quality, consistency, and overall reasonableness of the pricing approach.

M.4.3.2.12 Subfactor: Reporting Requirements (CC.6.2.15)

Standard: Evaluation will be based on an assessment of the adequacy of the proposed reports with respect to the following:

- Recommended distribution considers the Government's project management organization.
- Government's project approach.
- Offeror's proposed Contractor and Government management processes.
- Content, format and frequency of proposed reports.

M.4.3.3 Factor: Conversion Training (CC.6.3)

Mandatory Compliance: The Offeror must provide comprehensive training in conversion methodology, tools and techniques.

Features Evaluation:

M.4.3.3.1 Subfactor: Conversion Training Plan (CC.6.3)

Standard: The proposed conversion training plan; and, instructor and student materials will be evaluated in the following areas:

- Quality - (i.e., with respect to generally accepted training practices and standards).
- Useability of instructor guides (i.e., provides sufficient guidance for presentation of the course(s) by Government educators having attended the course(s) at least one time, and with minimal Contractor support).
- Useability of student guides (i.e., provides sufficient guidance and reference for the student to participate in classroom and after-hours assignments).
- Adequacy of course(s) content for the types of training.
- Adequacy of mix between lecture, discussion and "hands on" training.

M.4.3.3.2 Subfactor: Conversion Training Courses (CC.6.3.1 through CC.6.3.3)

Standard: Evaluation of conversion training courses will be based on the following:

- Adequacy - (i.e., meets the required course objectives).
- Appropriateness (i.e., oriented toward the personnel category, knowledge and skill level of the intended audience).

M.4.3.4 Factor: Initial Conversion Requirements (CC.6.4)

Standard: The evaluation will be based on the GCP development process, the SCP development process, the conversion execution methodology for each SCP, and each of the tasks listed in section CC.6.4. Consideration will be given to the reasonableness, technical feasibility, staffing plan, Government/Contractor breakout of roles and responsibilities, and impact on daily operations.

M.4.4 Item: Phase II Requirements (CC.7)

M.4.4.1 Factor: MCP/GCP Coordination and Management (CC.7.2)

Mandatory Compliance: The Offeror must demonstrate its understanding of the following:

- GCP/MCP coordination requirements.
- MCP/GCP management.

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M.4.4.1.1 Subfactor: GCP Review and GCP/MCP Coordination (CC.7.2)

Standard: Evaluation will be based on how well the proposed Contractor roles and responsibilities for GCP presentation, review, and GCP/MCP coordination are defined, and formulated with respect to the following:

a. Government's requirements for MCP adjustment based on GCP findings (e.g., MCP amendments to reflect changes in MCP approach or resource allocation).

b. Offeror's proposed Contractor and Government management processes.

M.4.4.2 Factor: GCP Finalization Requirements (CC.7.3)

Standard: Evaluation will be based on the Offeror's proposed approach to finalizing the GCP's. Emphasis will be placed on the adequacy of the proposed approach to integrate the total contract's conversion requirements and to coordinate the conversion approaches in order to maximize the conversion process effectiveness.

M.4.4.3 Factor: Assessment of Pre-Conversion Activities (CC.7.4)

Standard: It is expected that each Offeror may propose a unique functional approach to meeting the Government's requirements which will require resources, capabilities, facilities and procedures over and above those specified in the RFP. Evaluation will be based on the reasonableness, completeness, technical superiority and integration into the total conversion process.

M.4.5 Item: Phase III Requirements (CC.8)

M.4.5.1 Factor: MCP Management (CC.8.1)

Standard: Evaluation will be based on how well the proposed Contractor roles and responsibilities for MCP management are defined and formulated with respect to the following:

- Organizational level of involvement and the responsibilities defined.
- Offeror's proposed Contractor and Government management processes in the review, coordination and approval of recommended MCP amendments.

M.4.5.2 Factor: GCP Management (CC.8.2)

Standard: Evaluation will be based on the clarity, effectiveness and flexibility of proposed Contractor roles and responsibilities for GCP management with respect to the Offeror's proposed Contractor and Government management processes.

M.4.5.3 Factor: Site Conversion Management Approach (CC.8.3)

Standard: Evaluation will be based on the Offeror's proposed approach to the site management process, which will be evaluated both for the SCP development process and for the SCP execution process. The evaluation will address the technical and managerial adequacy of the proposed approach from the perspective of the Government site manager, as well as the interface to the GCP and MCP management processes. Those proposed approaches which can realistically minimize site operations while achieving department/agency project management objectives will receive higher ratings.

M.4.5.4 Factor: Preparation of the Site Conversion Plan (SCP) (CC.4.1.3 and CC.8.4)

Standard: Evaluation will be based on the thoroughness and technical adequacy of the proposed SCP preparation approach, the ease with which the process can be accomplished, and the expected impact on the site personnel.

Specific and detailed evaluation of the Firm-Fixed Pricing Methodology proposed by the Offeror, will be conducted, both with respect to its implementation during the SCP preparation process and as it can be expected to occur for each SCP development. It is important that the Government, through the Contractor's documentation development process be able to accurately gauge the level of Government and Contractor involvement for each site, including schedules, conversion approach and overall site-level impact.

M.4.5.5 Factor: Site Conversion for Approved SCP's (CC.8.5)

Standard: The detailed approach for the SCP conversion approach must be presented in detail in the Offeror's proposal, addressing for each site to be implemented:

a. The task breakdown
b. The conversion methodology
c. The resource requirements.

Evaluation will be based on the reasonableness, technical feasibility, staffing plan, Government/Contractor breakout of roles and responsibilities, and impact on daily operations. The evaluation will address each of the tasks listed in subsection CC.4.4.

M.5 COST EVALUATION

The Offeror's proposal amount(s) must be all inclusive. No charges, other than those specifically included in the Offeror's proposal, will be paid for under any resultant contract. The data supplied by the Offeror for the Government costs will be subject to particularly close scrutiny.

M.5.1 Present Value Analysis

The cost evaluation will consider the cost of money. The factors listed will be used to compute the present estimated value of cash flow. Cash flow or payments made over time will be adjusted to reflect the present value of those payments as of the beginning of the first month of the system's life. All costs shall be adjusted to reflect present value. The following formula shall be used to calculate present value costs:

Expected		Monthly		Monthly
Monthly	X	Present Value	=	Present Value
Cost		Discount Factor		Cost

The total system life present value Life Cycle Cost (LCC) of an offer then shall be the sum of the monthly present value costs. The discount methodology used assumes end-of-month costs and is based on the present value (discounted) technique at an annual effective rate of 10%, carried to six decimal places. Refer to Table M-1.

M.5.2 Proposed Costs

For evaluation purposes, Offerors must propose in Table B-6 of Section B of their proposals the costs associated with the installations, configurations and quantities, reflected in Figure IX-3 of Attachment IX in Section J of this solicitation. As stated in Section C.3, Hardware, the Government will specify the configurations and the quantity on individual orders to the successful offeror throughout the contract life. The Government will incur the costs on the individual orders as identified and proposed by line item in Section B in Tables B1 through B5a.

All vendor proposed costs should be clearly identified and include only those items of cost, by line item, specified in Section B. Any cost required for the successful operations of the system to be furnished, not enumerated by line item in Section B, should be identified and justified.

M.5.2.1 Assumptions for Cost Evaluation

Subsection B.2 contains the assumptions that are to be used in the preparation of Table B-6, Installation Summary Price. These assumptions are for evaluation purposes only and they do not obligate the Government to purchase these quantities or to adhere to these delivery dates.

M.5.2.2 Government Cost

Offerors are to add the Government costs to their cost proposals for evaluation purposes. Subsection B.1 and Paragraphs B.2 h, i, and j contain the instructions for the Offerors to prepare the Government costs. The Government will verify the accuracy of the

PRESENT VALUE DISCOUNT FACTOR FOR ECONOMIC ANALYSIS

MONTH	FACTOR	MONTH	FACTOR	MONTH	FACTOR	MONTH	FACTOR
1	.992 089	31	.781 752	61	.616 009	91	.485 406
2	.984 240	32	.775 567	62	.611 136	92	.481 566
3	.976 454	33	.769 432	63	.606 301	93	.477 757
4	.968 729	34	.763 345	64	.601 505	94	.473 977
5	.961 066	35	.757 306	65	.596 746	95	.470 227
6	.953 463	36	.751 315	66	.592 025	96	.466 507
7	.945 920	37	.745 371	67	.587 342	97	.462 817
8	.938 436	37	.733 474	68	.582 695	98	.459 155
9	.931 012	39	.733 624	69	.578 085	99	.455 523
10	.923 647	40	.727 821	70	.573 512	100	.451 919
11	.916 340	41	.722 063	71	.568 975	101	.448 344
12	.909 091	42	.716 351	72	.564 474	102	.444 797
13	.901 899	43	.710 683	73	.560 008	103	.441 278
14	.894 764	44	.705 061	74	.555 578	104	.437 787
15	.887 686	45	.699 483	75	.551 183	105	.434 324
16	.880 663	46	.693 950	76	.546 822	106	.430 888
17	.873 696	47	.688 460	77	.542 496	107	.427 479
18	.866 784	48	.683 013	78	.538 205	108	.424 098
19	.859 927	49	.677 610	79	.533 947	109	.420 742
20	.853 124	50	.672 249	80	.529 723	110	.417 414
21	.846 375	51	.666 931	81	.525 532	111	.414 112
22	.839 679	52	.661 655	82	.521 375	112	.410 836
23	.833 036	53	.656 421	83	.517 250	113	.407 586
24	.826 446	54	.651 228	84	.513 158	114	.404 361
25	.819 908	55	.646 076	85	.509 098	115	.401 162
26	.813 422	56	.640 965	86	.505 071	116	.397 989
27	.806 987	57	.635 894	87	.501 075	117	.394 840
28	.800 603	58	.630 863	88	.497 111	118	.391 786
29	.794 269	59	.625 873	89	.493 179	119	.388 617
30	.787 986	60	.620 921	90	.489 277	120	.385 543

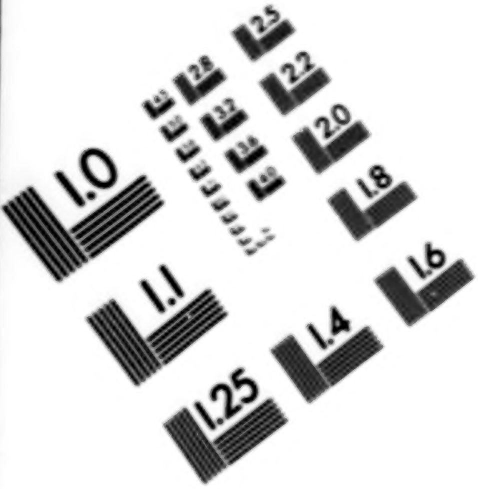
TABLE M-1

PRESENT VALUE DISCOUNT FACTOR FOR ECONOMIC ANALYSIS submitted data; any discrepancies in the Offeror's supplied data that the Government determines, must be corrected by the Offeror.

M.6 PERFORMANCE VALIDATION

The Department of State will schedule Live Test Demonstrations (LTD) with the Offerors in the Competitive Range. The Government will provide the specific date for the LTD to the Offerors to be tested at the time of Competitive Range notification.

The notified Offerors must perform a series of representative benchmark programs utilizing the software and equipment configuration proposed. This benchmark test is termed a Live Test Demonstration (LTD) and it consists of Time Performance Tests and a Functional Demonstration Test. Offerors must perform a Functional Demonstration Test to show that the equipment and software proposed can perform the mandatory requirements and mandatory optional features offered in the proposal. The benchmark programs and data will not be issued with the Solicitation Document. Section J, Attachment XX, "Live Test Demonstration Specifications and Physical Package", describes the LTD and the rules governing the conduct of the LTD. That attachment also describes the procedure for obtaining the programs and data.



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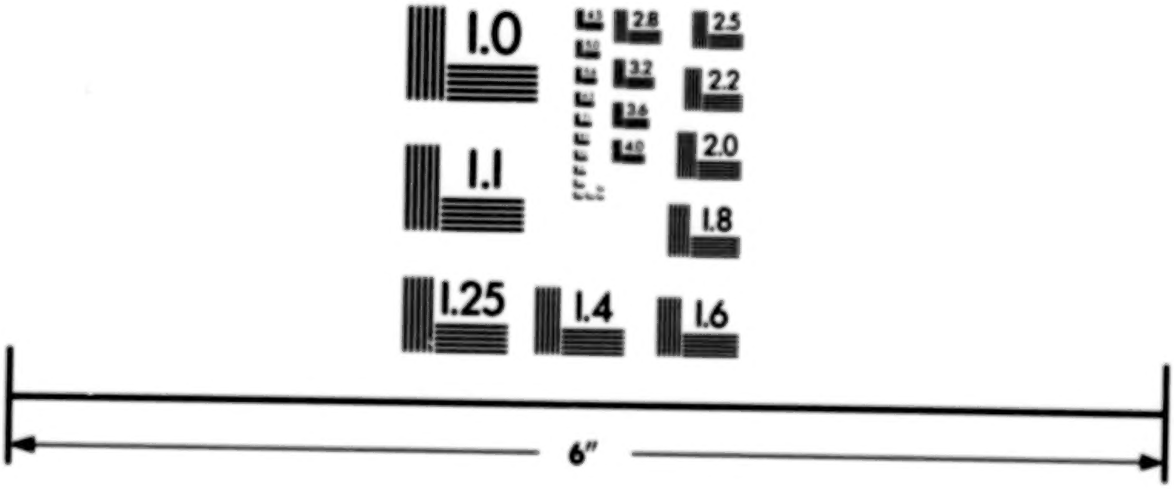

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